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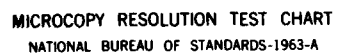
PERFORMANCE MONITORING SYSTEM: SUMMARY OF LOCK
STATISTICS FOR OCTOBER-DECEMBER 1984(U) CORPS OF
ENGINEERS FORT BELVOIR VA WATER RESOURCES SUPPORT CE
M V FLEMING ET AL MAY 85 WRSC-85-SR-2 F/G 13/2

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US Army Corps
of Engineers.
Engineer Institute for
Water Resources

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AD-A159 651

Performance Monitoring System:

Summary of Lock Statistics for October - December 1984

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May 1985

Summary Report 85-SR-2
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19. KEY WORDS (Continue on reverse side if necessary and identify by block number) lock Performance Monitoring System PMS statistics		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Lock Performance Monitoring data are collected at Corps locks by lock operators from observation and information provided by waterway operators. This quarterly summary is an overview of the collected statistics.		

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PERFORMANCE MONITORING SYSTEM **SUMMARY OF LOCK STATISTICS** **OCTOBER 1984 - DECEMBER 1984**

Navigation Data Management
 and Applications Branch
 Navigation Division

U.S. Army Corps of Engineers
 Water Resources Support Center
 Institute for Water Resources
 Ft. Belvoir, Virginia 22060-5586



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May 1985

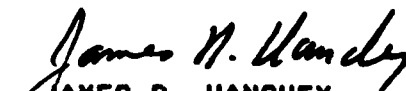
Summary Report 85-SR-2

PREFACE

This report is a product of the Navigation Data Management and Applications Branch of the U. S. Army Engineer Institute for Water Resources (WRSC-IWR). The information is compiled from statistics collected at the Corps locks in support of the lock Performance Monitoring System (PMS).

The study is managed by Mrs. Marilyn V. Fleming under the supervision of Mr. Francis M. Sharp, Chief of the WRSC-IWR Navigation Data Management and Applications Branch, and Dr. Lloyd G. Antle, Chief of the WRSC-IWR Navigation Division. The Office of the Chief of Engineers (OCE) sponsors are Mr. Henry W. Campbell Jr., DAEN-CWO-M, and Mr. Robert M. Daniel, DAEN-CWP-G.

Requests to update or change the distribution, comments and questions can be directed to Frank Sharp (202-355-2240 or FTS 385-2240) or Marilyn Fleming at the same telephone number. The information is produced and distributed quarterly.


JAMES R. HANCHEY
Director, WRSC-IWR

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Introduction

The lock Performance Monitoring System (PMS) is a part of the Inland Navigation Systems Analysis (INSA) program and encompasses the collection, editing, maintenance and analysis of data collected at all Corps-owned and operated locks. The data have been collected since March of 1975 and consist of information describing the traffic through the locks as well as the physical aspects of lockages. The quarterly summary of selected statistics presented in the appendix provides an overview of the traffic and operation at each lock. The quarterly report is presented as a set of three tables for each Corps District. Information reported for each lock and chamber includes:

of Engineers

Locks (Waterways); Water Traffic; Barges; Merchant vessels; Ships; Delay Tables (Data)

TABLE 1. A listing providing the name of the lock, the river on which the lock is and its dimensions. In those cases where there is no quarterly information, this table will be the only display for the district.

TABLE 2. A table providing, by direction and total, the number of tows, commercial vessels other than tows, recreational vessels, barges (empty and loaded), commercial lockages, recreational lockages and tonnage.

TABLE 3. A summary of approach, entry, chambering and exit times (maximum, minimum and average) and the number of delays, total delay time, maximum delay time and average delay time.

Although the summary information will be computed and displayed for chambers at which there is data for only one or two months of the quarter, the fact is noted on the report.

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
B2	NEW ORLEANS	LOWER MISS VALLEY	10/84	11/84	12/84

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
ATCHAFALAYA RIVER	11-BERNICK LOCK	0307/0045/11.0
BAYOU TECHE	31-KEYSTONE LOCK	0162/0036/12.0
FRESHWATER BAYOU	41-FRESHWATER BAYOU LOCK	0600/0084/15.0
GULF INTRACOASTAL	1-PORT ALLEN LOCK	1198/0084/15.0
	2-BAYOU SORREL LOCK	0800/0056/16.0
	3-INNER HRBR NAVIGATION CANL LK	0646/0075/40.0
	4-ALGERS LOCK	0797/0075/15.0
	5-HARVEY LOCK	0425/0075/14.0
	6-BAYOU BOEUF LOCK	1158/0075/15.0
	7-VERMILLION LOCK	1200/0056/14.0
	8-CALCASIEU LOCK	1205/0075/15.0
	21-SCHOONER BAYOU CONTROL STRUCT	9999/0075/14.0
	22-CATFISH POINT CONTROL STRUCT	9999/0056/16.0
	23-CALCASIEU SALT WATER BARRIER	9999/0056/15.0
OLD RIVER	51-OLD RIVER LOCK	1200/0075/15.0

NO DATA RECORDED ON SUNNRY FILE FOR THIS PERIOD

NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
B3	ST. LOUIS	LOWER MISS VALLEY	10/84	11/84	12/84

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
KASKASKIA RIVER	1-KASKASKIA RIVER NAVIGATION LK	0610/0084/12.0
MISSISSIPPI RIVER	24-LOCK & DAM 24	0610/0110/12.0
	25-LOCK & DAM 25	0610/0110/12.0
	26-LOCK & DAM 26	0610/0110/12.0
	26-LOCK & DAM 26 AUX 1	0380/0110/12.0
	27-CHAIN OF ROCKS LOCK & DAM 27	1210/0110/12.0
	27-CHAIN OF ROCKS LK & DM 27 AX1	0610/0110/12.0

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED			
B3	ST. LOUIS	LOWER MISS VALLEY	10/84	11/84	12/84	

RIVER/LOCK NAME	TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGS TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)

(NAV, OPN, ETC)

MISSISSIPPI RIVER

CHAIN OF ROCKS LK & DM 27 AX1	TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGS TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
UPBOUND STATISTICS	240	14	118	372	339	203	542	325	6	20	351	302
DOWNBOUND STATISTICS	295	160	83	538	289	628	917	363	54	19	436	901
TOTALS	535	174	201	910	628	831	1459	688	60	39	787	1203

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
B4	VICKSBURG	LOWER MISS VALLEY	10/84	11/84	12/84

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
OUCHITA/BLACK RIV	1-JONESVILLE LOCK & DAM	0600/0084/23.4
	2-COLUMBIA LOCK & DAM	0600/0084/27.4
	6-LOCK & DAM 6	0268/0055/17.4
	8-LOCK & DAM 8	0268/0055/19.0
RED RIVER	1-RED RIVER LOCK & DAM #1	0685/0084/ 9.0

NO DATA RECORDED ON SUMMARY FILE FOR THIS PERIOD

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC B4	DISTRICT NAME VICKSBURG			DIVISION NAME LOWER MISS VALLEY			MONTHS REPORTED 10/84			11/84			12/84					
ALL TIMES EXPRESSED IN MINUTES																		
APPROACH			LOCK PROCESSING TIME			EXIT			DELAYED	DELAY	DELAY	DELAY						
MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	TONS	TIME	AVG	MAX						
									TONS	(TONS)	(TONS)	(ALL VSSLS)						

HUDSON RIVER																		
JONESVILLE LOCK & DAM			1	6	25	1	5	31	1	12	60	1	7	58	34	228	2.8	25
COLUMBIA LOCK & DAM			3	5	8	3	5	10	7	14	40	3	6	23				
LOCK & DAM 6			NO DATA RECORDED FOR THIS LOCK															
LOCK & DAM 8			NO DATA RECORDED FOR THIS LOCK															
RED RIVER																		
RED RIVER LOCK & DAM #1			NO DATA RECORDED FOR THIS LOCK															

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
E3	NEW YORK	NORTH ATLANTIC	10/84	11/84	12/84

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
HUDSON RIVER	1-TROY LOCK & DAM	0493/0044/15.0

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROE3	DISTRICT NAME NEW YORK			DIVISION NAME NORTH ATLANTIC			MONTHS REPORTED												
							10/84			11/84			12/84						
ALL TIMES EXPRESSED IN MINUTES																			
APPROACH			LOCK ENTRY			PROCESSING TIME CHAMBER			EXIT			:	DELAYED TONS	DELAY TIME (TONS)	DELAY AVG (TONS)	DELAY MAX (ALL VSSLS)			
MIN AVG MAX			MIN AVG MAX			MIN AVG MAX			MIN AVG MAX			:							
HUDSON RIVER																			
TROY LOCK & DAM			3	7	18	3	4	10	9	10	14	2	5	10	:	50	336	2.8	25

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
E4	NORFOLK	NORTH ATLANTIC	10/84	11/84	12/84

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
ATLANT INTRACOASTAL	11-GREAT BRIDGE GUARD LOCK	0600/0075/16.0
DISMAL SWAMP	1-DEEP CREEK LOCK	0300/0052/12.0
	2-SOUTH HILLS LOCK	0300/0052/12.0

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC E4	DISTRICT NAME NORFOLK	DIVISION NAME NORTH ATLANTIC	MONTHS REPORTED										
			10/84		11/84		12/84						
RIVER/LOCK NAME		TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS CONNER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
(NAV, OPN, ETC)													
ATLANT INTRCOASTAL													
GREAT BRIDGE GUARD LOCK		xxx											
UPBOUND STATISTICS		166	226	67	459	82	122	204	223	137	12	372	136
DOWNBOUND STATISTICS		170	2667	59	2896	125	82	207	228	676	17	921	84
TOTALS		336	2893	126	3355	207	204	411	451	813	29	1293	221
DISMAL SWAMP													
DEEP CREEK LOCK		xxx	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS		0	300	1	301	0	0	0	0	89	0	89	0
DOWNBOUND STATISTICS		0	29	0	29	0	0	0	1	19	0	20	0
TOTALS		0	329	1	330	0	0	0	1	108	0	109	0
SOUTH MILLS LOCK		xxx	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS		0	28	0	28	0	0	0	2	19	0	21	0
DOWNBOUND STATISTICS		0	303	0	303	0	0	0	1	85	1	87	0
TOTALS		0	331	0	331	0	0	0	3	104	1	108	0

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC E4	DISTRICT NAME NORFOLK			DIVISION NAME NORTH ATLANTIC									MONTHS REPORTED							
													10/84			11/84		12/84		
ALL TIMES EXPRESSED IN MINUTES																				
APPROACH			LOCK PROCESSING TIME						EXIT			: DELAYED		DELAY	DELAY	DELAY				
			ENTRY	CHAMBER			TONS	TIME				AVG	MAX							
MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	(TONS)	(TONS)	(ALL VSSLS)		
ATLANT INTRACOASTAL																				
GREAT BRIDGE GUARD LOCK																				
	1	3	10	:	2	4	10	:	2	7	45	:	1	4	56	:	336	1600	4.8	43
DISMAL SWAMP																				
DEEP CREEK LOCK																				
	4	4	5	:	3	4	5	:	10	10	20	:	5	5	35	:	0	0	.0	7
SOUTH HILLS LOCK																				
	2	4	6	:	3	4	7	:	10	10	11	:	3	5	25	:	0	0	.0	120

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/04 THROUGH 12/04
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
F1	BUFFALO	NORTH CENTRAL	10/04	11/04	12/04

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
BLK ROCK CH/TOMAHAWKA	1-BLACK ROCK LOCK	0650/0070/21.7

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC F1	DISTRICT NAME BUFFALO	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED									
			10/84			11/84			12/84			

RIVER/LOCK NAME	TOMS	VESSL	VESSL	VESSL	BARGS	BARGS	BARGS	LOCKGS	LCKGES	LCKGES	LCKGES	TONNAGE (KTONS)
		RECRTN	OTHER	TOTAL	EMPTY	FULL	TOTAL	COMMER	RECRTN	OTHER	TOTAL	
		(NAV, OPN, ETC)										

BLK ROCK CH/TONAWANDA

BLACK ROCK LOCK	XXX	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS	1	190	20	211	0	1	1	24	94	9	127	7
DOWNBOUND STATISTICS	15	311	6	332	0	17	17	25	166	14	205	135
TOTALS	16	501	26	543	0	18	18	49	260	23	332	142

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
F2	CHICAGO	NORTH CENTRAL	10/84	11/84	12/84

RIVER	LCODE-LOCK NAME	LEN/MID/DRAFT (FT/FT/FT)
CHICAGO HARBOR	1-CHICAGO LOCK	0600/0080/22.0

NO DATA RECORDED ON SUMMARY FILE FOR THIS PERIOD

NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED			
F3	DETROIT	NORTH CENTRAL	10/84	11/84	12/84	

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)				
FOX RIVER	11-DE PERE LOCK & DAM	0146/0036/ 6.0				
	12-LITTLE KAUKAUMA LOCK & DAM	0146/0036/ 6.0				
	13-RAPIDE CROCHE LOCK & DAM	0146/0036/ 6.0				
	21-KAUKAUMA LOCK 1	0144/0035/ 6.0				
	22-KAUKAUMA LOCK 2	0144/0035/ 6.0				
	23-KAUKAUMA LOCK 3	0144/0031/ 6.0				
	24-KAUKAUMA LOCK 4	0144/0037/ 6.0				
	25-KAUKAUMA LOCK 5	0144/0036/ 6.0				
	32-LITTLE CHUTE LOCK 2	0147/0035/ 6.0				
	33-LITTLE CHUTE COMB LOCKS UPPER	0144/0036/ 6.0				
	34-LITTLE CHUTE COMB LOCKS LOWER	0147/0035/ 6.0				
	35-CEDARS LOCK & DAM	0144/0035/ 6.0				
	41-APPLETON LOCK 1	0145/0034/ 6.0				
	42-APPLETON LOCK 2	0145/0035/ 6.0				
	43-APPLETON LOCK 3	0144/0035/ 6.0				
	44-APPLETON LOCK 4	0144/0035/ 6.0				
	51-MENASHA LOCK & DAM	0144/0034/ 6.0				
THE INLAND ROUTE	11-ALANSON LOCK	0066/0018/ 7.0				
	ST MARYS RIVER	1-MACARTHUR LOCK	0800/0080/31.0			
		2-NEW POE LOCK	1200/0110/32.0			
		3-DAVIS LOCK00	1350/0080/31.0			
		4-SABIN LOCK00	1350/0080/31.0			

NO DATA RECORDED ON SUMMARY FILE FOR THIS PERIOD

NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
F4	ROCK ISLAND	NORTH CENTRAL	10/84	11/84	12/84

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
ILLINOIS	1-THOMAS J O'BRIEN	1000/0110/12.0
	2-LOCKPORT LOCK	0600/0110/12.0
	3-BRANDON ROAD LOCK & DAM	0600/0110/12.0
	4-DRESDEN ISLAND LOCK & DAM	0600/0110/12.0
	5-MARSELLES LOCK & DAM	0600/0110/12.0
	6-STARVED ROCK LOCK & DAM	0600/0110/12.0
	7-PEORIA LOCK & DAM	0600/0110/12.0
	8-LAGRANGE LOCK & DAM	0600/0110/12.0
MISSISSIPPI RIVER	11-LOCK & DAM 11	0600/0110/10.0
	12-LOCK & DAM 12	0600/0110/10.0
	13-LOCK & DAM 13	0600/0110/10.0
	14-LOCK & DAM 14	0600/0110/10.0
	14-LOCK & DAM 14 AUXILIARY 1	0320/0080/10.0
	15-LOCK & DAM 15	0600/0110/10.0
	15-LOCK & DAM 15 AUXILIARY 1	0360/0110/10.0
	16-LOCK & DAM 16	0600/0110/10.0
	17-LOCK & DAM 17	0600/0110/10.0
	18-LOCK & DAM 18	0600/0110/10.0
	19-LOCK & DAM 19	1200/0110/10.0
	19-LOCK & DAM 19 AUXILIARY 1	1350/0110/10.0
	20-LOCK & DAM 20	0600/0110/10.0
	21-LOCK & DAM 21	0600/0110/10.0
	22-LOCK & DAM 22	0600/0110/10.0

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC F4	DISTRICT NAME ROCK ISLAND	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED											
			10/84		11/84		12/84							
RIVER/LOCK NAME			TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL (NAV, OPN, ETC)	TONNAGE (KTONS)
ILLINOIS														
THOMAS J O'BRIEN			xxx											
UPBOUND STATISTICS			303	185	53	541	336	566	902	351	135	2	488	862
DOWNBOUND STATISTICS			284	823	60	1167	399	434	833	342	350	4	696	694
TOTALS			587	1008	113	1708	735	1000	1735	693	485	6	1184	1556
LOCKPORT LOCK			xxx											
UPBOUND STATISTICS			497	16	56	569	463	2064	2527	560	9	0	569	3087
DOWNBOUND STATISTICS			508	156	62	726	1586	901	2487	573	63	1	637	1476
TOTALS			1005	172	118	1295	2049	2965	5014	1133	72	1	1206	4563
BRANDON ROAD LOCK & DAM			xxx											
UPBOUND STATISTICS			512	15	131	658	539	2045	2584	622	10	1	633	3084
DOWNBOUND STATISTICS			504	164	131	799	1547	966	2513	620	75	2	697	1583
TOTALS			1016	179	262	1457	2086	3011	5097	1242	85	3	1330	4668
DRESDEN ISLAND LOCK & DAM			xxx											
UPBOUND STATISTICS			433	36	33	502	554	2031	2585	564	30	9	603	3132
DOWNBOUND STATISTICS			451	145	26	622	1476	1124	2600	557	93	7	657	1905
TOTALS			884	181	59	1124	2030	3155	5185	1121	123	16	1260	5037
MARSELLES LOCK & DAM			xxx											
UPBOUND STATISTICS			428	57	36	521	726	1903	2629	581	38	10	629	3032
DOWNBOUND STATISTICS			440	134	32	606	1267	1416	2683	580	93	11	684	2309
TOTALS			868	191	68	1127	1993	3319	5312	1161	131	21	1313	5342
STARVED ROCK LOCK & DAM			xxx											
UPBOUND STATISTICS			455	46	22	523	1029	1947	2976	619	38	3	660	3112
DOWNBOUND STATISTICS			456	128	21	605	1252	1734	2986	611	101	6	718	2751
TOTALS			911	174	43	1128	2281	3681	5962	1230	139	9	1378	5864
PEORIA LOCK & DAM			xxx											
UPBOUND STATISTICS			490	27	34	551	2031	2264	4295	711	16	72	799	3622
DOWNBOUND STATISTICS			507	134	16	657	1289	2942	4231	693	97	77	867	4442
TOTALS			997	161	50	1208	3320	5206	8526	1404	113	149	1666	8065

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC F4	DISTRICT NAME ROCK ISLAND	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED									
			10/84		11/84		12/84					
RIVER/LOCK NAME												
	TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS) (NAV, OPN, ETC)
ILLINOIS												
LAGRANGE LOCK & DAM	XXX											
UPBOUND STATISTICS	472	16	24	512	2825	1858	4683	635	9	137	781	3063
DOWNBOUND STATISTICS	495	150	12	657	738	3967	4705	589	94	161	844	5833
TOTALS	967	166	36	1169	3563	5825	9388	1224	103	298	1625	8896
MISSISSIPPI RIVER												
LOCK & DAM 11	XXX											
UPBOUND STATISTICS	177	83	46	306	941	716	1657	285	77	26	388	1101
DOWNBOUND STATISTICS	240	112	21	373	127	2553	2680	392	109	27	528	3645
TOTALS	417	195	67	679	1068	3269	4337	677	186	53	916	4747
LOCK & DAM 12	XXX											
UPBOUND STATISTICS	193	88	42	323	1053	811	1864	320	59	24	403	1229
DOWNBOUND STATISTICS	267	120	12	399	134	2876	3010	439	115	24	578	4070
TOTALS	460	208	54	722	1187	3687	4874	759	174	48	981	5300
LOCK & DAM 13	XXX											
UPBOUND STATISTICS	195	124	46	365	1064	816	1880	325	66	18	409	1244
DOWNBOUND STATISTICS	269	174	9	452	136	2896	3032	445	109	21	575	4098
TOTALS	464	298	55	817	1200	3712	4912	770	175	39	984	5343
LOCK & DAM 14	XXX											
UPBOUND STATISTICS	300	122	62	484	1488	946	2434	467	65	9	541	1431
DOWNBOUND STATISTICS	383	172	19	574	181	3546	3727	604	98	14	716	4840
TOTALS	683	294	81	1058	1669	4492	6161	1071	163	23	1257	6271
LOCK & DAM 14 AUXILIARY 1	NO DATA RECORDED FOR THIS LOCK											
LOCK & DAM 15	XXX											
UPBOUND STATISTICS	295	5	61	361	1362	987	2349	473	4	12	489	1512
DOWNBOUND STATISTICS	373	5	27	405	248	3394	3642	634	6	7	647	4779
TOTALS	668	10	88	766	1610	4381	5991	1107	10	19	1136	6292

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC F4	DISTRICT NAME ROCK ISLAND	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED											
			10/84		11/84		12/84							
RIVER/LOCK NAME			TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
(NAV, OPN, ETC)														
MISSISSIPPI RIVER														
LOCK & DAM 15 AUXILIARY 1			XXX											
UPBOUND STATISTICS			86	101	38	225	60	61	121	122	49	2	173	91
DOWNBOUND STATISTICS			82	168	51	301	78	44	122	133	88	1	222	59
TOTALS			168	269	89	526	138	105	243	255	137	3	395	150
LOCK & DAM 16			XXX											
UPBOUND STATISTICS			344	26	95	465	1698	1148	2846	563	24	21	608	1752
DOWNBOUND STATISTICS			448	44	44	536	360	3921	4281	731	47	12	790	5524
TOTALS			792	70	139	1001	2058	5069	7127	1294	71	33	1398	7276
LOCK & DAM 17			XXX											
UPBOUND STATISTICS			304	14	56	374	1703	1169	2872	503	18	24	545	1783
DOWNBOUND STATISTICS			399	41	10	450	289	4098	4387	683	61	14	758	5765
TOTALS			703	55	66	824	1992	5267	7259	1186	79	38	1303	7549
LOCK & DAM 18			XXX											
UPBOUND STATISTICS			307	29	68	404	1826	1180	3006	528	34	23	585	1809
DOWNBOUND STATISTICS			406	52	17	475	278	4288	4566	700	68	16	784	6033
TOTALS			713	81	85	879	2104	5468	7572	1228	102	39	1369	7842
LOCK & DAM 19			XXX											
UPBOUND STATISTICS			303	9	84	396	2041	1255	3296	340	7	10	357	1931
DOWNBOUND STATISTICS			409	39	36	484	268	4691	4959	418	24	9	451	6592
TOTALS			712	48	120	880	2309	5946	8255	758	31	19	808	8523
LOCK & DAM 19 AUXILIARY 1			NO DATA RECORDED FOR THIS LOCK											
LOCK & DAM 20			XXX											
UPBOUND STATISTICS			322	11	85	418	2173	1232	3405	585	9	12	606	1894
DOWNBOUND STATISTICS			418	35	47	500	258	4819	5077	773	41	13	827	6776
TOTALS			740	46	132	918	2431	6051	8482	1358	50	25	1433	8671
LOCK & DAM 21			XXX											
UPBOUND STATISTICS			332	15	74	421	2212	1237	3449	586	14	11	611	1933
DOWNBOUND STATISTICS			438	45	34	517	307	4872	5179	798	44	11	853	6858
TOTALS			770	60	108	938	2519	6109	8628	1384	58	22	1464	8791

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC F4	DISTRICT NAME ROCK ISLAND	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED									
			10/84			11/84			12/84			
RIVER/LOCK NAME												
TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)	
(NAV, OPN, ETC)												
MISSISSIPPI RIVER												
LOCK & DAM 22												
XXX												
UPBOUND STATISTICS	341	20	57	418	2254	1255	3509	584	14	24	622	1948
DOWNBOUND STATISTICS	457	71	17	545	281	5031	5312	796	52	25	873	7102
TOTALS	798	91	74	963	2535	6286	8821	1380	66	49	1495	9051

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC F4	DISTRICT NAME ROCK ISLAND			DIVISION NAME NORTH CENTRAL			MONTHS REPORTED										
							10/84			11/84			12/84				
ALL TIMES EXPRESSED IN MINUTES																	
APPROACH			LOCK PROCESSING TIME						EXIT		: DELAYED		DELAY	DELAY	DELAY	DELAY	
			ENTRY	CHAMBER		TONS	TIME	AVG									MAX
MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	(TONS)	(TONS)	(ALL VSSLS)
ILLINOIS																	
THOMAS J O'BRIEN	1	3	39	1	2	24	1	14	47	1	2	25	:	85	1167	2.0	47
LOCKPORT LOCK	1	10	138	1	12	434	6	25	79	1	11	109	:	800	105092	104.6	2015
BRANDON ROAD LOCK & DAM	1	11	110	1	11	409	5	21	75	1	11	404	:	875	160843	158.3	6796
DRESDEN ISLAND LOCK & DAM	1	9	416	1	9	342	2	16	429	1	12	70	:	511	41391	46.8	983
MARSHIELLES LOCK & DAM	1	10	125	1	9	65	2	19	395	1	15	73	:	551	83828	96.6	1440
STARVED ROCK LOCK & DAM	1	7	125	1	9	63	1	15	50	1	13	89	:	495	87274	95.8	1745
PEORIA LOCK & DAM	1	7	121	1	10	39	1	9	51	1	16	69	:	954	249165	249.9	3896
LAGRANGE LOCK & DAM	1	8	121	1	9	64	1	6	30	1	17	94	:	858	114676	118.6	1877
MISSISSIPPI RIVER																	
LOCK & DAM 11	1	8	68	1	7	37	2	9	70	1	13	125	:	206	17390	41.7	1040
LOCK & DAM 12	1	10	73	1	7	49	1	7	70	1	14	82	:	219	24977	54.3	670
LOCK & DAM 13	1	6	50	1	7	31	4	8	37	1	14	143	:	189	15177	32.7	1090
LOCK & DAM 14	1	7	100	1	7	67	3	8	68	1	14	91	:	399	53974	79.0	905
LOCK & DAM 14 AUXILIARY 1	NO DATA RECORDED FOR THIS LOCK																
LOCK & DAM 15	1	10	164	1	8	214	1	10	55	1	16	160	:	354	41442	62.0	405
LOCK & DAM 15 AUXILIARY 1	1	3	25	1	2	21	3	10	177	1	2	17	:	31	340	2.0	25

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC F4	DISTRICT NAME ROCK ISLAND	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED														
			10/84						11/84			12/84					
			ALL TIMES EXPRESSED IN MINUTES														
			APPROACH			LOCK PROCESSING TIME						EXIT		: DELAYED DELAY		DELAY	DELAY
MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	:	TONS	TIME	AVG	MAX	
														(TONS)	(TONS)	(ALL VSSLS)	
MISSISSIPPI RIVER																	
LOCK & DAM 16	1	11	445	1	8	428	1	9	81	1	17	415	:	531	66506	84.0	775
LOCK & DAM 17	1	11	113	1	8	125	2	9	454	1	15	110	:	462	54718	77.8	1535
LOCK & DAM 18	1	10	603	1	9	134	1	7	82	1	17	855	:	448	60121	84.3	1804
LOCK & DAM 19	1	20	117	1	8	43	2	17	693	1	11	763	:	391	38147	53.6	1440
LOCK & DAM 19 AUXILIARY 1	NO DATA RECORDED FOR THIS LOCK																
LOCK & DAM 20	1	7	75	1	9	405	2	6	52	1	17	144	:	457	60045	81.1	530
LOCK & DAM 21	1	10	77	1	9	68	2	6	49	1	17	87	:	490	70673	91.8	900
LOCK & DAM 22	1	13	155	1	9	38	1	6	25	1	18	107	:	590	159706	200.1	46520

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
F5	ST. PAUL	NORTH CENTRAL	10/84	11/84	12/84

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
MISSISSIPPI RIVER	1-LOCK & DAM 1 MAIN CHBR 1	0400/0056/11.0
	1-LOCK & DAM 1 MAIN CHBR 2	0400/0056/11.0
	2-LOCK & DAM 2	0600/0110/11.0
	2-LOCK & DAM 2 AUXILIARY 1	0500/0110/11.0
	3-LOCK & DAM 3	0600/0110/11.0
	4-LOCK & DAM 4	0600/0110/11.0
	5-LOCK & DAM 5	0600/0110/11.0
	6-LOCK & DAM 6	0600/0110/11.0
	7-LOCK & DAM 7	0600/0110/11.0
	8-LOCK & DAM 8	0600/0110/11.0
	9-LOCK & DAM 9	0600/0110/11.0
	10-LOCK & DAM 10	0600/0110/11.0
	51-ST ANTHONY FALLS UPPER L & D	0400/0056/11.0
	52-ST ANTHONY FALLS LOWER L & D	0400/0056/11.0
	55-LOCK & DAM 5A	0600/0110/11.0

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC F5	DISTRICT NAME ST. PAUL	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED									
			10/84		11/84		12/84					
RIVER/LOCK NAME	TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS CONNER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL (NAV, OPN, ETC)	TONNAGE (KTONS)
MISSISSIPPI RIVER												
LOCK & DAM 1 MAIN CHBR 1	XXX	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS	198	125	14	337	159	205	364	214	65	0	279	275
DOWNBOUND STATISTICS	203	138	9	350	191	186	377	214	68	1	283	274
TOTALS	401	263	23	687	350	391	741	428	133	1	562	550
LOCK & DAM 1 MAIN CHBR 2	NO DATA RECORDED FOR THIS LOCK											
LOCK & DAM 2	XXX											
UPBOUND STATISTICS	226	161	28	415	1096	459	1555	299	121	8	428	694
DOWNBOUND STATISTICS	260	146	9	415	125	2020	2145	370	107	8	485	2889
TOTALS	486	307	37	830	1221	2479	3700	669	228	16	913	3583
LOCK & DAM 2 AUXILIARY 1	NO DATA RECORDED FOR THIS LOCK											
LOCK & DAM 3	XXX	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS	169	215	28	412	809	479	1288	237	136	48	421	723
DOWNBOUND STATISTICS	200	267	10	477	123	1724	1847	282	149	50	481	2487
TOTALS	369	482	38	889	932	2203	3135	519	285	98	902	3211
LOCK & DAM 4	XXX											
UPBOUND STATISTICS	166	94	24	284	874	480	1354	244	83	8	335	736
DOWNBOUND STATISTICS	204	109	6	319	102	1909	2011	311	105	16	432	2769
TOTALS	370	203	30	603	976	2389	3365	555	188	24	767	3505
LOCK & DAM 5	XXX	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS	167	68	21	256	892	473	1365	249	64	17	330	737
DOWNBOUND STATISTICS	203	80	3	286	90	1910	2000	312	84	26	422	2772
TOTALS	370	148	24	542	982	2383	3365	561	148	43	752	3509
LOCK & DAM 6	XXX											
UPBOUND STATISTICS	179	82	14	275	1054	535	1589	262	84	24	370	800
DOWNBOUND STATISTICS	213	107	3	323	79	2180	2259	320	131	26	477	3156
TOTALS	392	189	17	598	1133	2715	3848	582	215	50	847	3956

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC F5	DISTRICT NAME ST. PAUL	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED									
			10/84		11/84		12/84					
RIVER/LOCK NAME	TONS	VESSL	VESSL	VESSL	BARGS	BARGS	BARGS	LOCKGS	LCKGES	LCKGFS	LCKGES	TONNAGE (KTONS)
		RECRTN	OTHER	TOTAL	EMPTY	FULL	TOTAL	CONMER	RECRTN	OTHER	TOTAL	
(NAV, OPN, ETC)												
MISSISSIPPI RIVER												
LOCK & DAM 7	XXX											
UPBOUND STATISTICS	178	105	37	320	1056	518	1574	288	99	16	403	784
DOWNBOUND STATISTICS	216	136	18	370	81	2210	2291	338	152	21	511	3176
TOTALS	394	241	55	690	1137	2728	3865	626	251	37	914	3961
LOCK & DAM 8	XXX											
UPBOUND STATISTICS	180	93	20	293	1062	572	1634	264	83	27	374	870
DOWNBOUND STATISTICS	213	113	10	336	87	2288	2375	333	122	31	486	3282
TOTALS	393	206	30	629	1149	2860	4009	597	205	58	860	4153
LOCK & DAM 9	XXX											
UPBOUND STATISTICS	162	107	26	295	805	700	1505	246	82	18	346	1049
DOWNBOUND STATISTICS	209	127	2	338	116	2229	2345	325	113	24	462	3192
TOTALS	371	234	28	633	921	2929	3850	571	195	42	808	4241
LOCK & DAM 10	XXX											
UPBOUND STATISTICS	183	127	31	341	999	706	1705	274	115	52	441	1064
DOWNBOUND STATISTICS	240	165	4	409	100	2543	2643	365	152	62	579	3629
TOTALS	423	292	35	750	1099	3249	4348	639	267	114	1020	4694
ST ANTHONY FALLS UPPER L & D	XXX	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS	123	48	36	207	126	58	184	148	32	0	180	95
DOWNBOUND STATISTICS	129	55	26	210	47	149	196	149	33	0	182	220
TOTALS	252	103	62	417	173	207	380	297	65	0	362	315
ST ANTHONY FALLS LOWER L & D	XXX	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS	198	60	20	278	159	205	364	215	30	0	245	284
DOWNBOUND STATISTICS	205	64	12	281	192	186	378	215	31	0	246	277
TOTALS	403	124	32	559	351	391	742	430	61	0	491	562
LOCK & DAM 5A	XXX	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS	165	68	42	275	886	466	1352	240	49	218	507	714
DOWNBOUND STATISTICS	204	87	21	312	92	1908	2000	286	78	234	598	2753
TOTALS	369	155	63	587	978	2374	3352	526	127	452	1105	3467

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC F5	DISTRICT NAME ST. PAUL	DIVISION NAME NORTH CENTRAL	MONTHS REPORTED															
			10/84						11/84						12/84			
			ALL TIMES EXPRESSED IN MINUTES															
			APPROACH			LOCK PROCESSING TIME						EXIT			: DELAYED		DELAY	DELAY
MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	: TONS	TIME	(TONS)	(TONS)	(ALL VSSLS)		
MISSISSIPPI RIVER																		
LOCK & DAM 1 MAIN CHBR 1	1	5	44	1	6	24	3	13	56	1	5	20	:	48	1027	2.6	45	
LOCK & DAM 1 MAIN CHBR 2	NO DATA RECORDED FOR THIS LOCK																	
LOCK & DAM 2	1	8	120	1	7	55	5	9	50	1	10	56	:	196	11399	23.5	270	
LOCK & DAM 2 AUXILIARY 1	NO DATA RECORDED FOR THIS LOCK																	
LOCK & DAM 3	1	9	108	1	7	55	3	6	55	1	11	76	:	160	9233	25.0	660	
LOCK & DAM 4	1	8	65	1	8	29	4	6	18	1	14	69	:	154	8067	21.8	165	
LOCK & DAM 5	1	7	83	1	7	25	4	7	33	1	12	66	:	140	6336	17.1	182	
LOCK & DAM 6	1	9	79	1	7	30	4	5	26	1	14	111	:	163	11814	30.1	392	
LOCK & DAM 7	1	8	92	1	8	99	2	5	16	1	12	59	:	178	13555	34.4	354	
LOCK & DAM 8	1	8	67	1	7	101	3	7	56	1	15	54	:	174	11547	29.4	267	
LOCK & DAM 9	1	9	80	1	8	28	3	6	16	1	15	82	:	135	10325	27.8	553	
LOCK & DAM 10	1	8	110	1	7	69	4	6	39	1	13	71	:	204	27511	65.0	622	
ST ANTHONY FALLS UPPER L & D	1	2	35	1	4	27	6	9	20	1	4	55	:	8	384	1.5	150	
ST ANTHONY FALLS LOWER L & D	1	3	22	1	5	21	4	11	24	1	4	29	:	59	1259	3.1	43	
LOCK & DAM 5A	1	7	75	1	5	25	4	6	16	1	9	42	:	173	10426	28.3	351	

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
G2	PORTLAND	NORTH PACIFIC	10/84	11/84	12/84

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
COLUMBIA RIVER	1-BONNEVILLE LOCK & DAM	0500/0075/15.0
	2-THE DALLES DAM	0675/0086/15.0
	3-JOHN DAY LOCK & DAM	0675/0086/15.0
WILLAMETTE RIVER	11-WILLAMETTE FALLS LOCKS 1 - 4	0210/0040/ 6.5
	15-WILLAMETTE FALLS GUARD LOCK	0210/0040/ 6.5

NO DATA RECORDED ON SUMMARY FILE FOR THIS PERIOD

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC G2	DISTRICT NAME PORTLAND			DIVISION NAME NORTH PACIFIC						MONTHS REPORTED 10/8411/8412/84					
ALL TIMES EXPRESSED IN MINUTES															
APPROACH			LOCK PROCESSING TIME								DELAYED	DELAY	DELAY	DELAY	
MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	TONS	TIME	AVG	MAX
BONNEVILLE LOCK & DAM	1	7	60	1	6	60	5	23	100	1	4	28	:		
THE DALLES DAM	1	5	25	2	6	30	5	22	83	1	5	25	:		
JOHN DAY LOCK & DAM	3	5	15	2	6	28	5	24	118	2	5	20	:		
WILLAMETTE FALLS LOCKS 1 - 4	1	1	18	1	2	33	10	30	98	1	2	12	:		
WILLAMETTE FALLS GUARD LOCK	1	1	5	1	1	19	1	1	42	1	1	17	:		

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
G3	SEATTLE	NORTH PACIFIC	10/84	11/84	12/84

RIVER	LCODE-LOCK NAME	LEN/MID/DRAFT (FT/FT/FT)
LAKE WASHINGTON SHIP CA	1-HIRAM M CHITTENDEN LOCKS	0760/0080/30.0
	1-HIRAM M CHITTENDEN LOCKS AUX1	0150/0028/25.0

NO DATA RECORDED ON SUMMARY FILE FOR THIS PERIOD

NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
G4	WALLA WALLA	NORTH PACIFIC	10/84	11/84	12/84

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
COLUMBIA RIVER	24-MCNARY LOCK & DAM	0675/0086/14.0
SMOKE RIVER	1-ICE HARBOR LOCK & DAM	0675/0086/14.0
	2-LOWER MONUMENTAL LOCK & DAM	0675/0086/14.0
	3-LITTLE GOOSE LOCK & DAM	0675/0086/14.0
	4-LOWER GRANITE LOCK & DAM	0675/0086/14.0

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC G4	DISTRICT NAME WALLA WALLA	DIVISION NAME NORTH PACIFIC	MONTHS REPORTED									
			10/84		11/84		12/84					
RIVER/LOCK NAME												
TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)	
(NAV, OPN, ETC)												
COLUMBIA RIVER												
MCNARY LOCK & DAM	XXX											
UPBOUND STATISTICS	176	12	5	193	373	255	628	181	7	1	417	
DOWNBOUND STATISTICS	173	13	5	191	57	552	609	181	8	2	1354	
TOTALS	349	25	10	384	430	807	1237	362	15	3	1771	
SNAKE RIVER												
ICE HARBOR LOCK & DAM	XXX											
UPBOUND STATISTICS	163	26	24	213	359	50	409	186	15	5	26	
DOWNBOUND STATISTICS	170	31	16	217	4	397	401	186	15	5	1011	
TOTALS	333	57	40	430	363	447	810	372	30	10	1038	
LOWER MONUMENTAL LOCK & DAM	XXX											
UPBOUND STATISTICS	114	5	3	122	323	49	372	118	2	0	27	
DOWNBOUND STATISTICS	116	11	2	129	4	362	366	121	6	0	910	
TOTALS	230	16	5	251	327	411	738	239	8	0	937	
LITTLE GOOSE LOCK & DAM	XXX											
UPBOUND STATISTICS	113	14	2	129	309	48	357	117	5	1	26	
DOWNBOUND STATISTICS	117	20	0	137	5	353	358	121	9	0	872	
TOTALS	230	34	2	266	314	401	715	238	14	1	899	
LOWER GRANITE LOCK & DAM	XXX											
UPBOUND STATISTICS	104	11	4	119	208	47	255	111	10	4	27	
DOWNBOUND STATISTICS	107	13	0	120	8	245	253	111	8	4	557	
TOTALS	211	24	4	239	216	292	508	222	18	8	584	

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC 64	DISTRICT NAME WALLA WALLA			DIVISION NAME NORTH PACIFIC			MONTHS REPORTED													
							10/84			11/84			12/84							
ALL TIMES EXPRESSED IN MINUTES																				
APPROACH			LOCK PROCESSING TIME									:	DELTAY	DELTAY	DELTAY	DELTAY				
			ENTRY			CHAMBER			EXIT			:	TONS	TIME	AVG	MAX				
MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:		(TONS)	(TONS)	(ALL VSSLS)	
COLUMBIA RIVER																				
MCNARY LOCK & DAM																				
	2	4	21		2	6	28		9	15	40		2	6	19	:	349	1903	5.5	45
SNAKE RIVER																				
ICE HARBOR LOCK & DAM																				
	1	3	14		1	4	20		10	21	53		1	3	12	:	333	2489	7.5	627
LOWER MONUMENTAL LOCK & DAM																				
	2	4	20		1	6	20		17	26	44		1	4	14	:	230	1474	6.4	65
LITTLE GOOSE LOCK & DAM																				
	2	3	20		2	4	28		10	15	34		2	5	17	:	230	1065	4.6	85
LOWER GRANITE LOCK & DAM																				
	1	4	14		2	5	13		9	11	42		2	4	12	:	211	921	4.4	31

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
H1	HUNTINGTON	OHIO RIVER	10/84	11/84	12/84

RIVER	LCODE-LOCK NAME	LEN/MID/DRAFT (FT/FT/FT)
KANAWHA RIVER	1-WINFIELD LOCKS & DAM MAIN 1	0360/0056/12.0
	1-WINFIELD LOCKS & DAM MAIN 2	0360/0056/12.0
	2-MARRET LOCKS & DAM MAIN 1	0360/0056/12.0
	2-MARRET LOCKS & DAM MAIN 2	0360/0056/12.0
	3-LONDON LOCKS & DAM MAIN 1	0360/0056/12.0
	3-LONDON LOCKS & DAM MAIN 2	0360/0056/12.0
OHIO RIVER	21-BELLEVILLE LOCKS & DAM	1200/0110/12.0
	21-BELLEVILLE LOCKS & DAM AUX 1	0600/0110/12.0
	22-RACINE LOCKS & DAM	1200/0110/12.0
	22-RACINE LOCKS & DAM AUX 1	0600/0110/12.0
	23-CALLIPOLIS LOCKS & DAM	0600/0110/12.0
	23-CALLIPOLIS LOCKS & DAM AUX 1	0360/0110/12.0
	24-GREENUP LOCKS & DAM	1200/0110/12.0
	24-GREENUP LOCKS & DAM AUX 1	0600/0110/12.0
	25-CAPT ANT MELDAHL LOCKS & DAM	1200/0110/12.0
	25-CAPT ANT MELDAHL LK&DAM AUX 1	0600/0110/12.0
	72-WILLOW ISLAND LOCKS & DAM	1200/0110/12.0
	72-WILLOW ISLAND LOCKS & DAM AUX	0600/0110/12.0

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC H1	DISTRICT NAME HUNTINGTON							MONTHS REPORTED					
								10/84		11/84		12/84	
RIVER/LOCK NAME	TONS	VESSL	VESSL	VESSL	BARGS	BARGS	BARGS	LOCKGS	LCKGES	LCKGES	LCKGES	TONNAGE (KTONS)	
		RECRTN	OTHER	TOTAL	EMPTY	FULL	TOTAL	COMMER	RECRTN	OTHER	TOTAL		
(NAV, OPN, ETC)													
KANAWHA RIVER													
WINFIELD LOCKS & DAM MAIN 1	xxx												
UPBOUND STATISTICS	330	7	21	358	1228	821	2049	1250	10	10	1270	1280	
DOWNBOUND STATISTICS	333	15	31	379	706	1396	2102	1246	14	14	1274	1528	
TOTALS	663	22	52	737	1934	2217	4151	2496	24	24	2544	2808	
WINFIELD LOCKS & DAM MAIN 2	xxx												
UPBOUND STATISTICS	39	2	1	42	229	36	265	136	6	0	142	48	
DOWNBOUND STATISTICS	32	0	4	36	61	107	168	108	0	3	111	110	
TOTALS	71	2	5	78	290	143	433	244	6	3	253	158	
MARNET LOCKS & DAM MAIN 1	xxx												
UPBOUND STATISTICS	125	6	11	142	555	100	655	428	9	6	443	140	
DOWNBOUND STATISTICS	135	4	11	150	38	659	697	455	9	9	473	760	
TOTALS	260	10	22	292	593	759	1352	883	18	15	916	900	
MARNET LOCKS & DAM MAIN 2	xxx												
UPBOUND STATISTICS	124	6	26	156	394	74	468	335	11	2	348	67	
DOWNBOUND STATISTICS	102	11	34	147	94	262	356	261	15	1	277	285	
TOTALS	226	17	60	303	488	336	824	596	26	3	625	352	
LONDON LOCKS & DAM MAIN 1	xxx												
UPBOUND STATISTICS	61	0	9	70	184	9	193	188	0	5	193	12	
DOWNBOUND STATISTICS	55	0	12	67	5	159	164	170	0	2	172	233	
TOTALS	116	0	21	137	189	168	357	358	0	7	365	245	
LONDON LOCKS & DAM MAIN 2	xxx												
UPBOUND STATISTICS	27	4	5	36	58	0	58	60	7	1	68	0	
DOWNBOUND STATISTICS	27	4	5	36	1	59	60	57	6	1	64	80	
TOTALS	54	8	10	72	59	59	118	117	13	2	132	80	
OHIO RIVER													
BELLEVILLE LOCKS & DAM	xxx												
UPBOUND STATISTICS	354	1	6	361	907	2800	3707	354	0	1	355	4087	
DOWNBOUND STATISTICS	331	2	3	336	1891	1885	3776	331	0	0	331	2925	
TOTALS	685	3	9	697	2798	4685	7483	685	0	1	686	7012	

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC H1	DISTRICT NAME HUNTINGTON	DIVISION NAME OHIO RIVER	MONTHS REPORTED										
			10/84		11/84		12/84						
RIVER/LOCK NAME													
		TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS CONWR	LCKGES RECRTN	LCKGES OTHER (NAV, OPN, ETC)	LCKGES TOTAL	TONNAGE (KTONS)
OHIO RIVER													
BELLEVILLE LOCKS & DAM AUX 1		NR											
UPBOUND STATISTICS		39	30	3	72	54	84	138	44	12	6	62	89
DOWNBOUND STATISTICS		48	34	7	89	116	56	172	57	14	4	75	44
TOTALS		87	64	10	161	170	140	310	101	26	10	137	134
RACINE LOCKS & DAM		NR											
UPBOUND STATISTICS		382	0	4	386	1126	2840	3966	384	0	0	384	4157
DOWNBOUND STATISTICS		370	1	4	375	1917	2204	4121	371	0	0	371	3198
TOTALS		752	1	8	761	3043	5044	8087	755	0	0	755	7355
RACINE LOCKS & DAM AUX 1		NR											
UPBOUND STATISTICS		57	22	9	88	164	64	228	68	4	5	77	83
DOWNBOUND STATISTICS		57	27	12	96	88	122	210	73	9	3	85	108
TOTALS		114	49	21	184	252	186	438	141	13	8	162	192
CALLIPOLIS LOCKS & DAM		NR											
UPBOUND STATISTICS		409	0	8	417	890	2817	3707	672	0	3	675	4430
DOWNBOUND STATISTICS		399	8	4	411	1953	1962	3915	676	0	1	677	2864
TOTALS		808	8	12	828	2843	4779	7622	1348	0	4	1352	7295
CALLIPOLIS LOCKS & DAM AUX 1		NR											
UPBOUND STATISTICS		31	18	24	73	39	42	81	56	15	3	74	64
DOWNBOUND STATISTICS		36	34	35	105	42	34	76	69	25	7	101	32
TOTALS		67	52	59	178	81	76	157	125	40	10	175	97
GREENUP LOCKS & DAM		NR											
UPBOUND STATISTICS		523	5	20	548	3084	1787	4871	533	3	2	538	2840
DOWNBOUND STATISTICS		542	2	20	564	924	4268	5192	551	0	1	552	6492
TOTALS		1065	7	40	1112	4008	6055	10063	1084	3	3	1090	9332
GREENUP LOCKS & DAM AUX 1		NR											
UPBOUND STATISTICS		70	197	58	325	102	63	165	125	92	1	218	78
DOWNBOUND STATISTICS		52	144	62	258	58	50	108	115	73	2	190	73
TOTALS		122	341	120	583	160	113	273	240	165	3	408	151

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC H1	DISTRICT NAME HUNTINGTON	DIVISION NAME OHIO RIVER			MONTHS REPORTED								12/84
RIVER/LOCK NAME		TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARCS EMPTY	BARCS FULL	BARCS TOTAL	LOCKGS CONNER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL (NAV, OPN, ETC)	TONNAGE (KTONS)
OHIO RIVER													
CAPT ANT MELDAHL LOCKS & DAM		xxx											
UPBOUND STATISTICS		483	3	5	491	2854	2121	4975	483	3	0	486	3367
DOWNBOUND STATISTICS		482	2	8	492	984	4290	5274	485	1	0	486	6547
TOTALS		965	5	13	983	3838	6411	10249	968	4	0	972	9915
CAPT ANT MELDAHL LK&DAM AUX 1		xxx											
UPBOUND STATISTICS		38	60	8	106	43	65	108	45	48	1	94	93
DOWNBOUND STATISTICS		44	81	9	134	91	31	122	55	65	1	121	39
TOTALS		82	141	17	240	134	96	230	100	113	2	215	133
WILLOW ISLAND LOCKS & DAM		xxx											
UPBOUND STATISTICS		340	1	7	348	908	2581	3489	341	1	0	342	3541
DOWNBOUND STATISTICS		325	3	2	330	1721	1836	3557	325	1	0	326	2799
TOTALS		665	4	9	678	2629	4417	7046	666	2	0	668	6340
WILLOW ISLAND LOCKS & DAM AUX		xxx											
UPBOUND STATISTICS		72	29	18	119	55	190	245	92	11	3	106	149
DOWNBOUND STATISTICS		81	21	14	116	178	86	264	100	10	5	115	84
TOTALS		153	50	32	235	233	276	509	192	21	8	221	233

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC H1	DISTRICT NAME HUNTINGTON	DIVISION NAME OHIO RIVER	MONTHS REPORTED																	
			10/84												11/84				12/84	
			ALL TIMES EXPRESSED IN MINUTES																	
			APPROACH						LOCK PROCESSING TIME						EXIT		: DELAYED		DELAY	DELAY
MTN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	:	TONS	TIME	AVG	MAX	
																		(TONS)	(TONS)	(ALL VSSLS)
KANAWHA RIVER																				
WINFIELD LOCKS & DAM MAIN 1		1	7	92	1	5	36	5	10	38	1	11	350	:	595	517896	781.1	3900		
WINFIELD LOCKS & DAM MAIN 2		1	10	55	1	4	21	5	9	25	2	10	39	:	32	9888	139.3	1945		
MARRET LOCKS & DAM MAIN 1		1	11	71	1	5	23	5	8	19	2	9	41	:	16	783	3.0	105		
MARRET LOCKS & DAM MAIN 2		1	9	63	1	4	18	5	8	22	2	8	38	:	13	816	3.6	170		
LONDON LOCKS & DAM MAIN 1		1	9	54	1	5	63	6	8	18	2	8	27	:	49	11491	99.1	645		
LONDON LOCKS & DAM MAIN 2		1	7	45	1	3	12	6	8	19	2	6	20	:	11	1992	36.9	461		
OHIO RIVER																				
BELLEVILLE LOCKS & DAM		1	17	50	2	9	30	8	13	38	2	8	27	:	189	7382	10.8	235		
BELLEVILLE LOCKS & DAM AUX 1		2	15	46	1	4	23	10	13	35	1	5	23	:	4	74	.9	25		
RACINE LOCKS & DAM		1	14	175	1	11	35	8	10	26	1	10	28	:	220	10543	14.0	258		
RACINE LOCKS & DAM AUX 1		2	12	33	1	6	16	7	10	25	2	7	20	:	4	128	1.1	61		
CALLIPOLIS LOCKS & DAM		1	10	65	1	12	50	5	11	23	2	18	55	:	512	71447	88.4	765		
CALLIPOLIS LOCKS & DAM AUX 1		1	7	27	1	5	30	5	11	24	2	6	36	:	5	226	3.4	75		
GREENUP LOCKS & DAM		1	14	60	3	9	20	5	11	31	1	9	26	:	432	17970	16.9	200		
GREENUP LOCKS & DAM AUX 1		1	9	40	1	4	13	6	10	22	1	5	17	:	13	267	2.2	50		
CAPT ANT MELDAHL LOCKS & DAM		1	19	58	1	10	28	7	13	26	1	12	30	:	407	22257	23.1	235		

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

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ERDC H2	DISTRICT NAME LOUISVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED		
			10/84	11/84	12/84
<hr/>					
RIVER	LCODE-LOCK NAME		LEN/MID/DRAFT (FT/FT/FT)		
GREEN/BARREN RIVER	21-LOCK & DAM 1		0600/0084/12.0		
	22-LOCK & DAM 2		0600/0084/12.0		
	23-LOCK & DAM 3		0138/0036/12.0		
OHIO RIVER	41-MARKLAND LOCKS & DAM		1200/0110/12.0		
	41-MARKLAND LOCKS & DAM AUX 1		0600/0110/12.0		
	42-MCALPINE LOCKS & DAM		1200/0110/12.0		
	42-MCALPINE LOCKS & DAM AUX 1		0600/0110/12.0		
	75-CANNELTON LOCK & DAM		1200/0110/12.0		
	75-CANNELTON LOCK & DAM AUX		0600/0110/12.0		
	76-NEWBURN LOCK & DAM		1200/0110/12.0		
	76-NEWBURN LOCK & DAM AUX 1		0600/0110/12.0		
	77-UNIONTOWN LOCK & DAM		1200/0110/12.0		
	77-UNIONTOWN LOCK & DAM AUX 1		0600/0110/12.0		
	78-SMITHLAND LOCK & DAM		1200/0110/12.0		
	78-SMITHLAND LOCK & DAM AUX 1		1200/0110/12.0		
	52-LOCK & DAM 52		1200/0110/12.0		
	52-LOCK & DAM 52 AUX 1		0600/0110/12.0		
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TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC H2	DISTRICT NAME LOUISVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED									
			10/84			11/84			12/84			
RIVER/LOCK NAME	TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGS TOTAL	LOCKGS CONNER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL (NAV, OPM, ETC)	TONNAGE (KTONS)
GREEN/BARREN RIVER												
LOCK & DAM 1	XXX											
UPBOUND STATISTICS	353	3	18	374	1112	192	1304	335	2	38	375	286
DOWNBOUND STATISTICS	355	6	11	372	127	1163	1290	324	4	45	373	1745
TOTALS	708	9	29	746	1239	1355	2594	659	6	83	748	2031
LOCK & DAM 2	XXX											
UPBOUND STATISTICS	230	11	10	251	857	28	885	207	8	34	249	39
DOWNBOUND STATISTICS	234	11	9	254	22	865	887	207	8	38	253	1289
TOTALS	464	22	19	505	879	893	1772	414	16	72	502	1328
LOCK & DAM 3	NO DATA RECORDED FOR THIS LOCK											
OHIO RIVER												
MARKLAND LOCKS & DAM	XXX											
UPBOUND STATISTICS	519	4	3	526	2583	2367	4950	521	2	5	528	3802
DOWNBOUND STATISTICS	526	11	3	540	811	4420	5231	529	7	5	541	6626
TOTALS	1045	15	6	1066	3394	6787	10181	1050	9	10	1069	10428
MARKLAND LOCKS & DAM AUX 1	XXX											
UPBOUND STATISTICS	28	145	6	179	35	28	63	33	72	0	105	41
DOWNBOUND STATISTICS	31	134	11	176	42	19	61	39	75	4	118	25
TOTALS	59	279	17	355	77	47	124	72	147	4	223	67
MCALPINE LOCKS & DAM	XXX											
UPBOUND STATISTICS	598	37	76	711	2282	2919	5201	653	13	1	667	4587
DOWNBOUND STATISTICS	621	50	65	736	971	4478	5449	655	21	1	677	6778
TOTALS	1219	87	141	1447	3253	7397	10650	1308	34	2	1344	11365
MCALPINE LOCKS & DAM AUX 1	NO DATA RECORDED FOR THIS LOCK											

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC H2	DISTRICT NAME LOUISVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED										
			10/84		11/84		12/84						
RIVER/LOCK NAME													
TONS		VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS CONMER	LCKGES RECRTN	LCKGES OTHER (NAV, OPN, ETC)	LCKGES TOTAL	TONNAGE (KTONS)	
OHIO RIVER													
CANNELTON LOCK & DAM		xxx											
UPBOUND STATISTICS		554	4	11	569	2300	3197	5497	556	2	1	559	5052
DOWNBOUND STATISTICS		553	4	16	573	945	4834	5779	562	1	0	563	6977
TOTALS		1107	8	27	1142	3245	8031	11276	1118	3	1	1122	12030
CANNELTON LOCK & DAM AUX		xxx											
UPBOUND STATISTICS		31	26	5	62	66	33	99	36	12	0	48	48
DOWNBOUND STATISTICS		36	48	6	90	34	73	107	43	22	2	67	98
TOTALS		67	74	11	152	100	106	206	79	34	2	115	146
NEWBURGH LOCK & DAM		xxx											
UPBOUND STATISTICS		670	20	28	718	3310	3335	6645	676	6	2	684	5309
DOWNBOUND STATISTICS		677	8	46	731	1378	5619	6997	692	2	0	694	7993
TOTALS		1347	28	74	1449	4688	8954	13642	1368	8	2	1378	13302
NEWBURGH LOCK & DAM AUX 1		xxx											
UPBOUND STATISTICS		109	206	58	373	153	158	311	140	84	3	227	230
DOWNBOUND STATISTICS		98	254	62	414	174	59	233	134	112	5	251	74
TOTALS		207	460	120	787	327	217	544	274	196	8	478	305
UNIONTOWN LOCK & DAM		xxx											
UPBOUND STATISTICS		736	3	11	750	4932	3156	8088	740	2	1	743	5045
DOWNBOUND STATISTICS		739	2	4	745	1021	7241	8262	741	1	0	742	10926
TOTALS		1475	5	15	1495	5953	10397	16350	1481	3	1	1485	15971
UNIONTOWN LOCK & DAM AUX 1		xxx											
UPBOUND STATISTICS		45	145	28	218	82	50	132	63	122	2	187	86
DOWNBOUND STATISTICS		43	176	25	244	88	27	115	62	149	5	216	48
TOTALS		88	321	53	462	170	77	247	125	271	7	403	135
SKITHLAND LOCK & DAM		xxx											
UPBOUND STATISTICS		146	7	9	162	916	408	1324	155	3	0	158	672
DOWNBOUND STATISTICS		754	22	34	810	917	7183	8100	776	16	2	794	11014
TOTALS		900	29	43	972	1833	7591	9424	931	19	2	952	11686

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC H2	DISTRICT NAME LOUISVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED											
			10/84		11/84		12/84							
RIVER/LOCK NAME			TONS	VESSEL RECRTN	VESSEL OTHER	VESSEL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS CONNER	LCKGES RECRTN	LCKGES OTHER (NAV, OPN, ETC)	LCKGES TOTAL	TONNAGE (KTONS)
OHIO RIVER														
SMITHLAND LOCK & DAM AUX 1			###											
UPBOUND STATISTICS			747	12	26	785	5201	2624	7825	764	10	2	776	4208
DOWNBOUND STATISTICS			123	13	10	146	238	919	1157	133	10	3	146	1423
TOTALS			870	25	36	931	5439	3543	8982	897	20	5	922	5631
LOCK & DAM 52			###											
UPBOUND STATISTICS			991	0	121	1112	5684	4427	10111	166	0	872	1038	6936
DOWNBOUND STATISTICS			1000	1	121	1122	2133	8127	10260	173	0	914	1087	11969
TOTALS			1991	1	242	2234	7817	12554	20371	339	0	1786	2125	18905
LOCK & DAM 52 AUX 1			###	ONLY FIRST MONTH REPORTED										
UPBOUND STATISTICS			79	6	30	115	122	159	281	106	5	2	113	275
DOWNBOUND STATISTICS			89	15	20	124	109	217	326	109	12	2	123	346
TOTALS			168	21	50	239	231	376	607	215	17	4	236	622

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC H2	DISTRICT NAME LOUISVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED														
			10/84					11/84					12/84				
			ALL TIMES EXPRESSED IN MINUTES														
APPROACH			LOCK ENTRY			PROCESSING TIME CHAMBER			EXIT			DELA	DELA	DELA	DELA		
MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	TONS	TIME (TONS)	AVG (TONS)	MAX (ALL VSSLS)		
GREEN/BARREN RIVER																	
LOCK & DAM 1	1	5	20	1	3	15	1	7	58	1	4	25	88	1758	2.5	70	
LOCK & DAM 2	1	5	35	1	3	12	1	10	45	1	4	32	43	965	2.1	45	
LOCK & DAM 3	NO DATA RECORDED FOR THIS LOCK																
OHIO RIVER																	
MARKLAND LOCKS & DAM	1	21	60	1	8	30	5	13	27	1	9	28	528	38501	36.8	627	
MARKLAND LOCKS & DAM AUX 1	1	10	60	1	3	13	5	12	41	1	5	15	2	43	.7	29	
MCALPINE LOCKS & DAM	1	18	84	1	9	53	5	11	40	1	8	50	645	38530	31.6	497	
MCALPINE LOCKS & DAM AUX 1	NO DATA RECORDED FOR THIS LOCK																
CANNELTON LOCK & DAM	1	23	60	1	8	30	5	10	25	1	8	35	596	43912	39.7	700	
CANNELTON LOCK & DAM AUX	1	19	60	1	4	30	5	10	25	1	4	20	8	196	2.9	61	
NEMBURGH LOCK & DAM	1	16	60	1	9	30	5	7	25	1	11	42	658	27868	20.7	232	
NEMBURGH LOCK & DAM AUX 1	1	10	45	1	4	21	5	7	10	1	5	26	27	464	2.2	55	
UNIONTOWN LOCK & DAM	1	19	60	1	7	30	5	9	30	1	8	37	826	50236	34.1	317	
UNIONTOWN LOCK & DAM AUX 1	1	7	50	1	2	25	5	9	16	1	2	24	4	67	.8	40	
SKITHLAND LOCK & DAM	1	16	60	1	9	30	5	9	37	2	8	55	169	5091	5.7	490	
SKITHLAND LOCK & DAM AUX 1	1	13	60	1	9	25	5	9	15	1	7	40	123	2230	2.6	120	

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC H2	DISTRICT NAME LOUISVILLE			DIVISION NAME OHIO RIVER			MONTHS REPORTED 10/8411/8412/84											
ALL TIMES EXPRESSED IN MINUTES																		
APPROACH			LOCK PROCESSING TIME			EXIT			DELAIED DELAY		DELAY		DELAY					
MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	TOMS	TIME	AVG	MAX			
												(TOMS)	(TOMS)	(ALL VSSLS)				
OHIO RIVER																		
LOCK & DAM 52			1	5	60	1	3	53	1	5	391	1	5	57	313	67068	33.7	945
LOCK & DAM 52 AUX 1			1	13	100	1	9	58	5	14	40	2	9	58	65	3687	21.9	270

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
H3	NASHVILLE	OHIO RIVER	10/84	11/84	12/84
RIVER	LCODE-LOCK NAME		LEN/WID/DRAFT (FT/FT/FT)		
CLINCH RIVER	11-MELTON HILL LOCK		0400/0075/11.0		
CUMBERLAND RIVER	21-BARKLEY LOCK		0800/0110/11.0		
	22-CHEATHAM LOCK		0800/0110/11.0		
	23-CORDELL HULL LOCK		0400/0084/11.0		
	24-OLD HICKORY LOCK		0400/0084/11.0		
TENNESSEE RIVER	1-KENTUCKY LOCK		0600/0110/11.0		
	2-PICKWICK LANDING LOCK		1000/0110/11.0		
	2-PICKWICK LANDING LOCK AUX		0600/0110/11.0		
	3-WILSON LOCK		0600/0110/11.0		
	3-WILSON LOCK AUX		0292/0060/11.0		
	4-GEN JOS WHEELER LOCK		0600/0110/11.0		
	4-GEN JOS WHEELER LK	AUX1	0400/0060/11.0		
	5-CUNTERSVILLE LOCK		0600/0110/11.0		
	5-CUNTERSVILLE LOCK	AUX 1	0360/0060/11.0		
	6-NICKAJAC LOCK		0600/0119/11.0		
	7-CHICKAMAUGA LOCK		0360/0060/11.0		
	8-WATTS BAR LOCK		0360/0060/11.0		
	9-FORT LOUDON LOCK		0360/0060/11.0		

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC H3	DISTRICT NAME NASHVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED									
			10/84		11/84		12/84					
RIVER/LOCK NAME												
TOMS												
VESSL												
RECRTN												
OTHER												
VESSL												
TOTAL												
BARGS												
EMPTY												
FULL												
BARGES												
TOTAL												
LOCKGS												
CONNER												
LCKGES												
RECRTN												
OTHER												
LCKGES												
TOTAL												
TONNAGE												
(KTONS)												
(NAV, OPN, ETC)												
CLINCH RIVER												
MELTON HILL LOCK												
XXX												
UPBOUND STATISTICS												
0 6 0 6 0 0 0 0 6 2 8 0												
DOWNBOUND STATISTICS												
0 6 0 6 0 0 0 0 6 2 8 0												
TOTALS												
0 12 0 12 0 0 0 0 12 4 16 0												
CUMBERLAND RIVER												
BARKLEY LOCK												
XXX												
UPBOUND STATISTICS												
64 21 2 87 39 362 401 66 16 1 83 526												
DOWNBOUND STATISTICS												
111 26 3 140 926 53 979 144 26 1 171 73												
TOTALS												
175 47 5 227 965 415 1380 210 42 2 254 600												
CHEATHAM LOCK												
XXX												
UPBOUND STATISTICS												
93 19 1 113 22 520 542 99 17 2 118 769												
DOWNBOUND STATISTICS												
89 25 6 120 511 36 547 100 18 1 119 53												
TOTALS												
182 44 7 233 533 556 1089 199 35 3 237 822												
CORDELL HULL LOCK												
XXX												
UPBOUND STATISTICS												
9 8 4 21 18 1 19 15 6 0 21 1												
DOWNBOUND STATISTICS												
10 8 3 21 1 18 19 13 7 0 20 26												
TOTALS												
19 16 7 42 19 19 38 28 13 0 41 27												
OLD HICKORY LOCK												
XXX												
UPBOUND STATISTICS												
32 79 10 121 8 47 55 45 70 8 123 85												
DOWNBOUND STATISTICS												
28 89 14 131 42 6 48 46 66 7 119 10												
TOTALS												
60 168 24 252 50 53 103 91 136 15 242 95												
TENNESSEE RIVER												
KENTUCKY LOCK												
XXX												
UPBOUND STATISTICS												
435 28 32 495 1063 3234 4297 716 33 9 758 4749												
DOWNBOUND STATISTICS												
381 26 47 454 2480 1265 3745 643 15 7 665 1804												
TOTALS												
816 54 79 949 3543 4499 8042 1359 48 16 1423 6553												

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC H3	DISTRICT NAME NASHVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED										
			10/84			11/84			12/84				
RIVER/LOCK NAME	TONS	VESSL	VESSL	VESSL	BARGS	BARGS	BARGS	LOCKGS	LCKGES	LCKGES	LCKGES	TONNAGE (KTONS)	
		RECRTN	OTHER	TOTAL	EMPTY	FULL	TOTAL	CONNER	RECRTN	OTHER	TOTAL		
(NAV, OPN, ETC)													
TENNESSEE RIVER													
PICKNICK LANDING LOCK	XXX												
UPBOUND STATISTICS	177	25	13	215	168	1671	1839	231	24	11	266	2405	
DOWNBOUND STATISTICS	159	13	15	187	1304	344	1648	208	11	15	234	433	
TOTALS	336	38	28	402	1472	2015	3487	439	35	26	500	2839	
PICKNICK LANDING LOCK AUX	XXX												
UPBOUND STATISTICS	83	17	2	102	50	747	797	133	17	12	162	1069	
DOWNBOUND STATISTICS	95	18	11	124	754	162	916	159	19	7	185	229	
TOTALS	178	35	13	226	804	909	1713	292	36	19	347	1298	
WILSON LOCK	XXX												
UPBOUND STATISTICS	115	104	54	273	247	790	1037	199	63	10	272	1136	
DOWNBOUND STATISTICS	127	105	48	280	560	437	997	212	39	13	264	598	
TOTALS	242	209	102	553	807	1227	2034	411	102	23	536	1734	
WILSON LOCK AUX	NO DATA RECORDED FOR THIS LOCK												
GEN JOS WHEELER LOCK	XXX												
UPBOUND STATISTICS	111	22	3	136	258	782	1040	174	23	6	203	1122	
DOWNBOUND STATISTICS	105	22	7	134	541	406	947	165	18	6	189	541	
TOTALS	216	44	10	270	799	1188	1987	339	41	12	392	1664	
GEN JOS WHEELER LK	AUX1	XXX											
UPBOUND STATISTICS		1	71	1	73	1	0	1	3	51	2	56	1
DOWNBOUND STATISTICS		0	80	2	82	0	0	0	3	54	2	59	0
TOTALS		1	151	3	155	1	0	1	6	105	4	115	2
GUNTERSVILLE LOCK	XXX												
UPBOUND STATISTICS		121	54	2	177	334	634	968	174	47	2	223	904
DOWNBOUND STATISTICS		119	51	7	177	457	456	913	163	37	5	205	599
TOTALS		240	105	9	354	791	1090	1881	337	84	7	428	1503
GUNTERSVILLE LOCK	AUX 1	XXX											
UPBOUND STATISTICS		0	88	0	88	0	0	0	2	67	0	69	0
DOWNBOUND STATISTICS		0	79	2	81	0	0	0	2	66	0	68	0
TOTALS		0	167	2	169	0	0	0	4	133	0	137	0

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC H3	DISTRICT NAME NASHVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED									
			10/84		11/84		12/84					
RIVER/LOCK NAME												
TONS												
VESSL												
RECRTN												
OTHER												
VESSL												
TOTAL												
BARGS												
EMPTY												
FULL												
BARGES												
TOTAL												
LOCKGS												
COMMER												
LCKGES												
RECRTN												
OTHER												
LCKGES												
TOTAL												
TONNAGE												
(KTONS)												
(NAV, OPN, ETC)												
TENNESSEE RIVER												
NICKAJAC LOCK												
xxx												
UPBOUND STATISTICS												
147												
102												
5												
254												
422												
653												
1075												
187												
71												
3												
261												
863												
DOWNBOUND STATISTICS												
147												
105												
8												
260												
544												
510												
1054												
188												
66												
2												
256												
688												
TOTALS												
294												
207												
13												
514												
966												
1163												
2129												
375												
137												
5												
517												
1552												
CHICKAMAUGA LOCK												
xxx												
UPBOUND STATISTICS												
62												
387												
4												
453												
61												
226												
287												
133												
300												
10												
443												
314												
DOWNBOUND STATISTICS												
58												
398												
11												
467												
185												
113												
298												
143												
296												
13												
452												
153												
TOTALS												
120												
785												
15												
920												
246												
339												
585												
276												
596												
23												
895												
467												
WATTS BAR LOCK												
xxx												
UPBOUND STATISTICS												
40												
88												
1												
129												
58												
92												
150												
86												
129												
4												
219												
145												
DOWNBOUND STATISTICS												
36												
92												
5												
133												
54												
96												
150												
89												
126												
2												
217												
131												
TOTALS												
76												
180												
6												
262												
112												
188												
300												
175												
255												
6												
436												
276												
FORT LOUDON LOCK												
xxx												
UPBOUND STATISTICS												
29												
74												
6												
109												
16												
54												
70												
52												
80												
4												
136												
92												
DOWNBOUND STATISTICS												
28												
73												
9												
110												
36												
32												
68												
51												
82												
4												
137												
41												
TOTALS												
57												
147												
15												
219												
52												
86												
138												
103												
162												
8												
273												
133												

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC H3	DISTRICT NAME NASHVILLE	DIVISION NAME OHIO RIVER	MONTHS REPORTED															
			10/84					11/84					12/84					
			ALL TIMES EXPRESSED IN MINUTES															
APPROACH			LOCK PROCESSING TIME						EXIT			: DELAYED		DELAY	DELAY	DELAY		
MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	TIME (TONS)	AVG (TONS)	MAX (ALL VSSLS)	
CLINCH RIVER																		
MELTON HILL LOCK	2	8	20	2	2	3	7	14	20	1	2	6	:	0	0	.0	0	
CUMBERLAND RIVER																		
BARKLEY LOCK	1	14	110	1	10	75	9	15	28	1	9	35	:	13	568	3.2	98	
CHEATHAM LOCK	1	9	31	1	10	37	9	17	63	1	9	54	:	29	8433	46.3	920	
CORDELL HULL LOCK	2	4	13	1	4	16	6	16	30	1	5	17	:	0	0	.0	0	
OLD HICKORY LOCK	1	3	26	1	4	22	12	16	31	2	4	21	:	3	166	2.8	102	
TENNESSEE RIVER																		
KENTUCKY LOCK	1	9	99	1	13	111	6	18	57	1	18	73	:	643	167151	204.8	996	
PICKWICK LANDING LOCK	1	12	90	2	14	71	9	24	61	2	18	102	:	133	16578	49.3	761	
PICKWICK LANDING LOCK AUX	1	10	139	3	11	69	9	17	47	1	17	81	:	86	12045	67.7	546	
WILSON LOCK	1	10	72	2	13	75	8	22	45	1	14	52	:	74	10971	45.3	726	
WILSON LOCK AUX	NO DATA RECORDED FOR THIS LOCK																	
GEN JOS WHEELER LOCK	1	13	103	2	13	42	9	14	59	3	18	72	:	44	3474	16.1	314	
GEN JOS WHEELER LK	AUX	1	8	19	2	4	11	6	12	22	1	4	11	:	0	0	.0	126
GUNTERSVILLE LOCK	1	11	53	1	12	38	10	15	65	1	15	57	:	46	3828	16.0	308	
GUNTERSVILLE LOCK	AUX	1	5	24	1	3	14	9	14	23	1	3	7	:	0	0	.0	33
NICKAJAC LOCK	1	9	46	2	10	32	6	14	23	1	12	60	:	67	3362	11.4	159	

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC H3	DISTRICT NAME NASHVILLE			DIVISION NAME OHIO RIVER							MONTHS REPORTED 10/8411/8412/84						
ALL TIMES EXPRESSED IN MINUTES																	
APPROACH			LOCK PROCESSING TIME							: DELAYED DELAY DELAY DELAY							
			ENTRY							: TONS TIME AVG MAX							
MIN AVG MAX			CHAMBER							: TONS (TONS) (TONS) (ALL VSSLS)							
			EXIT														
			MIN AVG MAX														
TENNESSEE RIVER																	

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
H4	PITTSBURGH	OHIO RIVER	10/84	11/84	12/84

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
ALLEGHENY RIVER	42-LOCK & DAM 2	0360/0056/13.0
	43-LOCK & DAM 3	0360/0056/13.0
	44-LOCK & DAM 4	0360/0056/13.0
	45-LOCK & DAM 5	0360/0056/13.0
	46-LOCK & DAM 6	0360/0056/13.0
	47-LOCK & DAM 7	0360/0056/13.0
	48-LOCK & DAM 8	0360/0056/13.0
	49-LOCK & DAM 9	0360/0056/13.0
	MONONGAHELA RIVER	22-LOCK & DAM 2
22-LOCK & DAM 2 AUX 1		0360/0056/13.0
23-LOCK & DAM 3		0720/0056/13.0
23-LOCK & DAM 3 AUXILIARY 1		0360/0056/13.0
24-LOCK & DAM 4		0720/0056/13.0
24-LOCK & DAM 4 AUXILIARY 1		0360/0056/13.0
25-MAXWELL LOCK & DAM		0720/0084/13.0
25-MAXWELL LOCK & DAM AUX 1		0720/0084/13.0
27-LOCK & DAM 7		0360/0056/13.0
28-LOCK & DAM 8		0360/0056/13.0
29-MORGANTOWN LOCK & DAM		0600/0084/13.0
30-HILDEBRAND LOCK & DAM		0600/0084/13.0
31-OPEKISKA LOCK & DAM		0600/0084/13.0
OHIO RIVER		1-ENBORTH LOCK & DAM
	1-ENBORTH LOCK & DAM AUX 1	0360/0056/13.0
	2-DASHIELDS LOCK & DAM	0600/0110/13.0
	2-DASHIELDS LOCK & DAM AUX 1	0360/0056/13.0
	3-MONTGOMERY LOCK & DAM	0600/0110/13.0
	3-MONTGOMERY LOCK & DAM AUX 1	0360/0056/13.0
	4-NEW CUMBERLAND LOCK & DAM	1200/0110/13.0
	4-NEW CUMBERLAND LK & DAM AUX 1	0600/0110/13.0
	5-PIKE ISLAND LOCK & DAM	1200/0110/13.0
	5-PIKE ISLAND LOCK & DAM AUX 1	0600/0110/13.0
	71-HANNIBAL LOCKS & DAM	1200/0110/13.0
	71-HANNIBAL LOCKS & DAM AUX 1	0600/0110/13.0

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC H4	DISTRICT NAME PITTSBURGH		DIVISION NAME OHIO RIVER				MONTHS REPORTED							
							10/84		11/84		12/84			
RIVER/LOCK NAME			TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
			(NAV, OPN, ETC)											
ALLEGHENY RIVER														
LOCK & DAM 2			XXX											
UPBOUND STATISTICS			253	213	20	486	514	337	851	378	179	5	562	364
DOWNBOUND STATISTICS			256	213	21	490	346	485	831	381	176	3	560	264
TOTALS			509	426	41	976	860	822	1682	759	355	8	1122	628
LOCK & DAM 3			XXX											
UPBOUND STATISTICS			266	80	23	369	526	359	885	413	85	2	500	387
DOWNBOUND STATISTICS			270	89	19	378	372	483	855	407	90	2	499	259
TOTALS			536	169	42	747	898	842	1740	820	175	4	999	646
LOCK & DAM 4			XXX											
UPBOUND STATISTICS			243	94	23	360	828	87	915	346	67	3	416	112
DOWNBOUND STATISTICS			247	99	20	366	95	818	913	353	70	3	426	402
TOTALS			490	193	43	726	923	905	1828	699	137	6	842	514
LOCK & DAM 5			XXX											
UPBOUND STATISTICS			170	69	4	243	766	2	768	206	52	4	262	1
DOWNBOUND STATISTICS			171	72	3	246	2	764	766	210	46	4	260	324
TOTALS			341	141	7	489	768	766	1534	416	98	8	522	326
LOCK & DAM 6			XXX											
UPBOUND STATISTICS			168	41	3	212	729	2	731	203	38	3	244	1
DOWNBOUND STATISTICS			171	35	2	208	6	732	738	209	34	3	246	311
TOTALS			339	76	5	420	735	734	1469	412	72	6	490	312
LOCK & DAM 7			XXX											
UPBOUND STATISTICS			45	40	10	95	83	1	84	53	26	1	80	1
DOWNBOUND STATISTICS			43	32	11	86	1	84	85	53	20	1	74	36
TOTALS			88	72	21	181	84	85	169	106	46	2	154	37
LOCK & DAM 8			XXX											
UPBOUND STATISTICS			95	36	13	144	95	0	95	110	23	0	133	0
DOWNBOUND STATISTICS			97	36	11	144	1	96	97	110	25	0	135	186
TOTALS			192	72	24	288	96	96	192	220	48	0	268	186

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER	MONTHS REPORTED											
			10/84			11/84			12/84					
RIVER/LOCK NAME			TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
			(NAV, OPN, ETC)											
ALLEGHENY RIVER														
LOCK & DAM 9			XXX	ONLY FIRST MONTH REPORTED										
UPBOUND STATISTICS			0	19	0	19	0	0	0	5	13	0	18	0
DOWNBOUND STATISTICS			0	21	0	21	0	0	0	5	13	0	18	0
TOTALS			0	40	0	40	0	0	0	10	26	0	36	0
MONONGAHELA RIVER														
LOCK & DAM 2			XXX											
UPBOUND STATISTICS			333	0	15	348	1045	923	1988	377	0	0	377	1141
DOWNBOUND STATISTICS			349	0	13	362	699	1341	2040	383	0	1	384	1436
TOTALS			682	0	28	710	1764	2264	4028	760	0	1	761	2578
LOCK & DAM 2 AUX 1			XXX											
UPBOUND STATISTICS			125	29	61	215	74	121	195	183	25	4	212	86
DOWNBOUND STATISTICS			111	33	70	214	136	31	167	178	27	3	208	33
TOTALS			236	62	131	429	210	152	362	361	52	7	420	119
LOCK & DAM 3			XXX											
UPBOUND STATISTICS			508	0	3	511	2112	448	2560	509	0	0	509	545
DOWNBOUND STATISTICS			523	0	3	526	310	2272	2582	524	0	0	524	2278
TOTALS			1031	0	6	1037	2422	2720	5142	1033	0	0	1033	2823
LOCK & DAM 3 AUXILIARY 1			XXX											
UPBOUND STATISTICS			104	21	72	197	101	41	142	175	18	3	196	46
DOWNBOUND STATISTICS			79	24	80	183	60	41	101	159	21	3	183	46
TOTALS			183	45	152	380	161	82	243	334	39	6	379	92
LOCK & DAM 4			XXX											
UPBOUND STATISTICS			460	0	5	465	2217	343	2560	474	0	2	476	361
DOWNBOUND STATISTICS			478	0	3	481	224	2334	2558	489	0	1	490	2332
TOTALS			938	0	8	946	2441	2677	5118	963	0	3	966	2694

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER	MONTHS REPORTED										
			10/84			11/84			12/84				
RIVER/LOCK NAME		TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS CONMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
(NAV, OPN, ETC)													
MONONGAHELA RIVER													
LOCK & DAM 4 AUXILIARY 1		XXX											
UPBOUND STATISTICS		43	27	33	103	62	7	69	76	20	2	98	6
DOWNBOUND STATISTICS		38	29	31	98	35	25	60	66	27	3	96	25
TOTALS		81	56	64	201	97	32	129	142	47	5	194	31
MAXWELL LOCK & DAM		XXX											
UPBOUND STATISTICS		359	46	8	413	1891	230	2121	368	29	4	401	264
DOWNBOUND STATISTICS		66	23	7	96	37	313	350	73	13	3	89	314
TOTALS		425	69	15	509	1928	543	2471	441	42	7	490	578
MAXWELL LOCK & DAM AUX 1		XXX											
UPBOUND STATISTICS		45	24	0	69	210	38	248	46	8	0	54	40
DOWNBOUND STATISTICS		336	27	3	366	130	1912	2042	339	18	0	357	1896
TOTALS		381	51	3	435	340	1950	2290	385	26	0	411	1936
LOCK & DAM 7		XXX											
UPBOUND STATISTICS		402	7	21	430	1610	256	1866	754	10	7	771	294
DOWNBOUND STATISTICS		414	10	12	436	208	1683	1891	769	14	5	788	1615
TOTALS		816	17	33	866	1818	1939	3757	1523	24	12	1559	1910
LOCK & DAM 8		XXX											
UPBOUND STATISTICS		365	7	9	381	1341	274	1615	652	10	5	667	308
DOWNBOUND STATISTICS		369	10	16	395	233	1433	1666	680	15	5	700	1377
TOTALS		734	17	25	776	1574	1707	3281	1332	25	10	1367	1685
MORGANTOWN LOCK & DAM		XXX											
UPBOUND STATISTICS		48	14	8	70	210	1	211	58	11	1	70	1
DOWNBOUND STATISTICS		49	29	8	86	6	214	220	59	15	1	75	199
TOTALS		97	43	16	156	216	215	431	117	26	2	145	200
HILDEBRAND LOCK & DAM		XXX											
UPBOUND STATISTICS		13	20	7	40	45	1	46	19	18	0	37	1
DOWNBOUND STATISTICS		16	35	3	54	4	45	49	20	23	0	43	48
TOTALS		29	55	10	94	49	46	95	39	41	0	80	50

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC H4	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER	MONTHS REPORTED										
			10/84			11/84			12/84				
RIVER/LOCK NAME		TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
(NAV, OPN, ETC)													
MONONGAHELA RIVER													
OPEKISKA LOCK & DAM		XXX											
UPBOUND STATISTICS		1	40	6	47	1	0	1	8	24	1	33	0
DOWNBOUND STATISTICS		6	51	2	59	5	4	9	9	33	0	42	5
TOTALS		7	91	8	106	6	4	10	17	57	1	75	5
OHIO RIVER													
ENSWORTH LOCK & DAM		XXX											
UPBOUND STATISTICS		428	1	9	438	738	1725	2463	488	1	6	495	1992
DOWNBOUND STATISTICS		431	0	8	439	1426	1095	2521	480	0	3	483	1248
TOTALS		859	1	17	877	2164	2820	4984	968	1	9	978	3240
ENSWORTH LOCK & DAM AUX 1		XXX											
UPBOUND STATISTICS		134	47	77	258	81	96	177	223	31	8	262	98
DOWNBOUND STATISTICS		139	65	99	303	155	43	198	251	51	10	312	42
TOTALS		273	112	176	561	236	139	375	474	82	18	574	140
DASHIELDS LOCK & DAM		XXX											
UPBOUND STATISTICS		420	0	11	431	746	2015	2761	491	0	4	495	2282
DOWNBOUND STATISTICS		412	0	12	424	1649	1121	2770	471	0	3	474	1274
TOTALS		832	0	23	855	2395	3136	5531	962	0	7	969	3556
DASHIELDS LOCK & DAM AUX 1		XXX											
UPBOUND STATISTICS		103	55	80	238	65	54	119	180	39	3	222	64
DOWNBOUND STATISTICS		109	62	98	269	109	38	147	204	46	4	254	35
TOTALS		212	117	178	507	174	92	266	384	85	7	476	100
MONTGOMERY LOCK & DAM		XXX											
UPBOUND STATISTICS		320	3	10	333	622	1552	2174	401	1	2	404	1855
DOWNBOUND STATISTICS		333	2	16	351	1320	904	2224	417	2	2	421	1075
TOTALS		653	5	26	684	1942	2456	4398	818	3	4	825	2930

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC HA	DISTRICT NAME PITTSBURGH	DIVISION NAME OHIO RIVER	MONTHS REPORTED										
			10/84		11/84		12/84						
RIVER/LOCK NAME		TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS CONNER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
(NAV, OPN, ETC)													
OHIO RIVER													
MONTGOMERY LOCK & DAM AUX 1		xxx											
UPBOUND STATISTICS		153	33	83	269	147	424	571	419	40	5	464	514
DOWNBOUND STATISTICS		137	32	87	256	342	247	589	398	40	5	443	276
TOTALS		290	65	170	525	489	671	1160	817	80	10	907	790
NEW CUMBERLAND LOCK & DAM		xxx											
UPBOUND STATISTICS		248	0	11	259	228	2162	2390	249	0	0	249	3211
DOWNBOUND STATISTICS		232	0	5	237	1666	677	2343	232	0	0	232	885
TOTALS		480	0	16	496	1894	2839	4733	481	0	0	481	4096
NEW CUMBERLAND LK & DAM AUX 1		xxx											
UPBOUND STATISTICS		132	35	44	211	163	168	331	177	25	5	207	222
DOWNBOUND STATISTICS		152	37	37	226	245	161	406	190	27	5	222	168
TOTALS		284	72	81	437	408	329	737	367	52	10	429	390
PIKE ISLAND LOCK & DAM		xxx											
UPBOUND STATISTICS		301	1	8	310	335	2867	3202	302	0	0	302	4113
DOWNBOUND STATISTICS		287	0	4	291	2273	931	3204	288	0	0	288	1253
TOTALS		588	1	12	601	2608	3798	6406	590	0	0	590	5366
PIKE ISLAND LOCK & DAM AUX 1		xxx											
UPBOUND STATISTICS		112	25	36	173	167	146	313	150	24	4	178	192
DOWNBOUND STATISTICS		136	16	24	176	201	194	395	161	14	3	178	211
TOTALS		248	41	60	349	368	340	708	311	38	7	356	403
HANNIBAL LOCKS & DAM		xxx											
UPBOUND STATISTICS		301	1	2	304	810	2443	3253	301	1	1	303	3425
DOWNBOUND STATISTICS		282	0	3	285	1610	1727	3337	282	0	1	283	2402
TOTALS		583	1	5	589	2420	4170	6590	583	1	2	586	5828
HANNIBAL LOCKS & DAM AUX 1		xxx											
UPBOUND STATISTICS		51	10	13	74	38	113	151	66	6	11	83	115
DOWNBOUND STATISTICS		62	13	13	88	90	98	188	79	11	12	102	100
TOTALS		113	23	26	162	128	211	339	145	17	23	185	216

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC H4	DISTRICT NAME PITTSBURGH			DIVISION NAME OHIO RIVER									MONTHS REPORTED																
													10/84			11/84			12/84										
													ALL TIMES EXPRESSED IN MINUTES																
APPROACH			LOCK PROCESSING TIME									: DELAYED		DELAY	DELAY	DELAY													
			ENTRY			CHAMBER			EXIT			: TONS		TIME	AVG	MAX													
MIN AVG MAX			: MIN AVG MAX			: MIN AVG MAX			: MIN AVG MAX			:		(TONS)	(TONS)	(ALL VSSLS)													
ALLEGHENY RIVER																													
LOCK & DAM 2	1	5	31	1	4	21	5	7	17	1	6	28	:	123	7049	13.8	1520												
LOCK & DAM 3	1	6	50	1	4	23	6	7	10	1	6	71	:	127	4857	9.1	193												
LOCK & DAM 4	1	6	36	1	5	20	6	8	20	1	7	45	:	92	3554	7.3	150												
LOCK & DAM 5	1	4	23	1	4	14	7	8	28	1	5	51	:	30	391	1.1	42												
LOCK & DAM 6	2	4	15	2	4	5	7	8	10	2	5	15	:	38	499	1.5	59												
LOCK & DAM 7	2	4	5	2	4	5	8	8	10	2	4	5	:	2	5	.1	23												
LOCK & DAM 8	2	4	10	2	4	5	7	7	8	1	4	5	:	4	18	.1	33												
LOCK & DAM 9	2	4	6	2	2	3	8	8	10	2	2	3	:	0	0	.0	19												
MONONGAHELA RIVER																													
LOCK & DAM 2	1	11	49	1	5	34	5	11	37	2	7	39	:	152	4737	6.9	180												
LOCK & DAM 2 AUX 1	1	8	38	1	2	8	5	6	17	1	2	8	:	19	229	1.0	83												
LOCK & DAM 3	1	11	36	2	6	18	7	10	17	3	6	16	:	315	9205	8.9	175												
LOCK & DAM 3 AUXILIARY 1	1	7	25	1	2	11	5	7	14	1	3	10	:	11	147	.8	35												
LOCK & DAM 4	1	11	33	2	6	20	5	9	28	1	7	57	:	241	6732	7.2	140												
LOCK & DAM 4 AUXILIARY 1	1	9	40	1	2	12	7	9	14	1	4	22	:	1	8	.1	26												
MAXWELL LOCK & DAM	1	9	26	1	6	20	8	10	43	1	8	19	:	21	363	.9	34												

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC H4	DISTRICT NAME PITTSBURGH			DIVISION NAME OHIO RIVER							MONTHS REPORTED						
											10/84			11/84		12/84	
ALL TIMES EXPRESSED IN MINUTES																	
APPROACH			LOCK PROCESSING TIME						EXIT		: DELAYED : TONS		DELAY TIME (TONS)	DELAY AVG (TONS)	DELAY MAX (ALL VSSLS)		
			ENTRY MIN	AVG	MAX	: MIN	AVG	MAX								: MIN	AVG
MIN	AVG	MAX							: MIN	AVG	MAX	: MIN	AVG	MAX			
MONONGAHELA RIVER																	
MAXWELL LOCK & DAM AUX 1	1	13	55	1	7	22	5	11	29	2	9	20	:	22	284	.7	39
LOCK & DAM 7	1	6	37	1	4	15	5	5	44	1	9	36	:	327	16175	19.8	499
LOCK & DAM 8	1	6	38	1	4	18	5	6	14	1	9	75	:	200	8050	11.0	425
MORGANTOWN LOCK & DAM	3	5	40	5	5	25	5	10	20	5	5	15	:	0	0	.0	2
HILDEBRAND LOCK & DAM	2	5	25	1	3	10	7	11	20	1	3	10	:	1	61	2.1	61
OPEKISKA LOCK & DAM	2	6	14	1	2	11	5	10	15	1	3	7	:	0	0	.0	20
OHIO RIVER																	
ENSWORTH LOCK & DAM	1	12	44	2	6	25	6	13	31	1	8	45	:	270	12784	14.9	230
ENSWORTH LOCK & DAM AUX 1	1	8	24	2	3	10	5	8	40	2	3	10	:	28	492	1.8	78
DASHIELDS LOCK & DAM	1	14	75	1	8	30	6	11	28	2	11	53	:	312	16640	20.0	410
DASHIELDS LOCK & DAM AUX 1	1	10	35	1	2	16	5	6	15	1	3	38	:	20	333	1.6	69
MONTGOMERY LOCK & DAM	1	10	43	1	9	46	6	14	49	2	12	106	:	278	21109	32.3	800
MONTGOMERY LOCK & DAM AUX 1	1	5	54	1	5	29	5	9	60	1	6	54	:	203	53202	183.5	1810
NEW CUMBERLAND LOCK & DAM	2	22	60	2	7	34	9	15	43	3	13	31	:	77	3008	6.3	104
NEW CUMBERLAND LK & DAM AUX	1	13	51	1	3	13	8	12	24	1	9	34	:	32	538	1.9	39
PIKE ISLAND LOCK & DAM	1	16	60	2	11	27	7	14	26	3	11	24	:	117	3865	6.6	152
PIKE ISLAND LOCK & DAM AUX 1	1	11	49	1	5	42	6	13	25	2	8	33	:	12	221	.9	61

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC H4	DISTRICT NAME PITTSBURGH			DIVISION NAME OHIO RIVER			MONTHS REPORTED										
							10/84			11/84			12/84				
ALL TIMES EXPRESSED IN MINUTES																	
APPROACH			LOCK ENTRY			PROCESSING TIME CHAMBER			EXIT			:	DELAYED TOWS	DELAY TIME	DELAY AVG	DELAY MAX	
MIN AVG MAX			:	MIN AVG MAX	:	MIN AVG MAX	:	MIN AVG MAX	:	MIN AVG MAX	:	TOWS	(TOWS)	(TOWS)	(ALL VSSLS)		

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC K3	DISTRICT NAME JACKSONVILLE	DIVISION NAME SOUTH ATLANTIC	MONTHS REPORTED		
			10/84	11/84	12/84

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)			
CROSS FLA BRG CHL	11-HENRY HOLLAND BUCKMAN LOCK	0600/0084/15.0			
	12-EUREKA LOCK	0600/0084/15.0			
	13-INGLIS LOCK	0600/0084/15.0			
CANAVERAL HARBOR	21-CANAVERAL LOCK	0600/0090/15.0			
OKEECHOBEE WATERWAY	1-ST LUCIE LOCK & DAM	0250/0050/14.0			
	2-MOORE HAVEN LOCK	0250/0050/11.0			
	3-ORTONA LOCK & DAM	0250/0050/12.0			
	4-W P FRANKLIN LCK & CTRL STRCT	0400/0056/14.0			
	5-PORT MAYACA LOCK	0400/0056/14.0			
OKLAHAMA RIVER	31-MOSS BLUFF LOCK & DAM	0156/0030/XXXX			

NO DATA RECORDED ON SUMMARY FILE FOR THIS PERIOD

NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
K5	MOBILE	SOUTH ATLANTIC	10/84	11/84	12/84
RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)			
ALABAMA-COOSA RIVERS	11-CLAIBORNE LOCK & DAM	0600/0084/12.0			
	12-MILLERS FERRY LOCK & DAM	0600/0084/12.0			
	13-JONES BLUFF LOCK & DAM	0600/0084/12.0			
APLCH/CHTCH/FLNT RI	21-JIM WOODRUFF LOCK & DAM	0450/0082/12.0			
	22-GEORGE W ANDREWS LOCK & DAM	0450/0082/12.0			
	23-WALTER F GEORGE LOCK & DAM	0450/0082/12.0			
BLKMAR/TOMBIGBEE RI	1-COFFEEVILLE LOCK	0600/0110/12.0			
	2-DEMOPOLIS LOCK & DAM	0600/0110/12.0			
	3-WARRIOR LOCK & DAM	0600/0110/12.0			
	4-WILLIAM BACON OLIVER LK & DM	0460/0095/12.0			
	5-HOLT LOCK & DAM	0600/0110/12.0			
	6-JOHN HOLLIS BANKHEAD LK & DM	0600/0110/12.0			
PEARL RIVER	31-LOCK 1	0310/0065/ 9.0			
	32-LOCK 2	0310/0065/ 9.0			
	33-LOCK 3	0310/0065/ 9.0			
TENN TOMBIGBEE WATERWAY	41-GAINESVILLE LOCK & DAM	0600/0110/12.0			
	42-ALICEVILLE LOCK & DAM	0600/0110/12.0			
	43-COLUMBUS LOCK & DAM	0600/0110/12.0			
	44-ABERDEEN LOCK & DAM	0600/0110/12.0			

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

ERDC KS	DISTRICT NAME MOBILE	DIVISION NAME SOUTH ATLANTIC	MONTHS REPORTED										
			10/84		11/84		12/84						
RIVER/LOCK NAME		TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER (NAV, OPN, ETC)	LCKGES TOTAL	TONNAGE (KTONS)
ALABAMA-COOSA RIVERS													
CLAIBORNE LOCK & DAM		xxx	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS		71	54	2	127	223	17	240	74	56	4	134	23
DOWNBOUND STATISTICS		68	56	2	126	16	212	228	72	54	3	129	263
TOTALS		139	110	4	253	239	229	468	146	110	7	263	287
MILLERS FERRY LOCK & DAM		xxx	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS		71	5	1	77	208	47	255	74	6	2	82	17
DOWNBOUND STATISTICS		71	4	5	80	18	221	239	73	5	2	80	271
TOTALS		142	9	6	157	226	268	494	147	11	4	162	288
JONES BLUFF LOCK & DAM		xxx	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS		14	17	0	31	7	12	19	13	3	0	16	15
DOWNBOUND STATISTICS		14	16	0	30	13	7	20	15	2	0	17	8
TOTALS		28	33	0	61	20	19	39	28	5	0	33	23
APLCH/CHTCH/FLNT RI													
JIM WOODRUFF LOCK & DAM		xxx	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS		76	14	6	96	81	53	134	88	10	6	104	83
DOWNBOUND STATISTICS		77	25	9	111	55	79	134	91	12	8	111	58
TOTALS		153	39	15	207	136	132	268	179	22	14	215	141
GEORGE W ANDREWS LOCK & DAM		xxx	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS		48	30	5	83	55	29	84	49	25	3	77	43
DOWNBOUND STATISTICS		48	38	4	90	29	61	90	47	29	3	79	49
TOTALS		96	68	9	173	84	90	174	96	54	6	156	93
WALTER F GEORGE LOCK & DAM		xxx	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS		28	23	2	53	49	12	61	33	15	2	50	15
DOWNBOUND STATISTICS		32	22	0	54	15	50	65	34	16	3	53	34
TOTALS		60	45	2	107	64	62	126	67	31	5	103	50

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC K5	DISTRICT NAME MOBILE	DIVISION NAME SOUTH ATLANTIC	MONTHS REPORTED											
			10/84		11/84		12/84							
RIVER/LOCK NAME			TONS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS CONNER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
			(NAV, OPN, ETC)											
PEARL RIVER														
LOCK 2			NO DATA RECORDED FOR THIS LOCK											
LOCK 3			NO DATA RECORDED FOR THIS LOCK											
TENN TOMBIGBEE WATERWAY														
GAINESVILLE LOCK & DAM			***	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS			17	9	1	27	36	12	48	18	4	7	29	15
DOWNBOUND STATISTICS			17	6	1	24	8	34	42	19	4	10	33	50
TOTALS			34	15	2	51	44	46	90	37	8	17	62	66
ALICEVILLE LOCK & DAM			***	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS			14	28	14	56	22	6	28	32	26	11	69	11
DOWNBOUND STATISTICS			14	27	7	48	4	26	30	27	28	18	73	41
TOTALS			28	55	21	104	26	32	58	59	54	29	142	53
COLUMBUS LOCK & DAM			***	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS			9	38	8	55	5	10	15	18	32	6	56	11
DOWNBOUND STATISTICS			9	38	10	57	7	12	19	19	33	5	57	12
TOTALS			18	76	18	112	12	22	34	37	65	11	113	23
ABERDEEN LOCK & DAM			***	ONLY FIRST AND SECOND MONTHS REPORTED										
UPBOUND STATISTICS			0	3	1	4	0	0	0	1	2	1	4	0
DOWNBOUND STATISTICS			0	3	1	4	0	0	0	1	2	1	4	0
TOTALS			0	6	2	8	0	0	0	2	4	2	8	0

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC KS	DISTRICT NAME MOBILE			DIVISION NAME SOUTH ATLANTIC									MONTHS REPORTED							
													10/84			11/84		12/84		
ALL TIMES EXPRESSED IN MINUTES																				
APPROACH			LOCK PROCESSING TIME									: DELAYED	DELAY	DELAY	DELAY					
			ENTRY	CHAMBER			EXIT	: TONS	TIME	AVG	MAX									
MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	:		(TONS)	(TONS)	(ALL VSSLS)				
TENN TOMBIGBEE WATERWAY																				
GAINESVILLE LOCK & DAM	1	9	37	1	5	12	5	13	27	1	7	23	:	2	20	.6	61			
ALICEVILLE LOCK & DAM	1	3	31	1	2	17	7	13	35	1	2	14	:	1	19	.7	19			
COLUMBUS LOCK & DAM	1	5	46	1	2	25	5	12	43	1	1	15	:	0	0	.0	0			
ABERDEEN LOCK & DAM	1	4	22	1	2	12	6	14	28	1	3	15	:	0	0	.0	0			

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
K6	SAVANNAH	SOUTH ATLANTIC	10/84	11/84	12/84

RIVER	LCODE-LOCK NAME	LEN/MID/DRAFT (FT/FT/FT)
SAVANNAH RIVER	1-NEW SAVANNAH BLUFF LOCK & DAM	0360/0056/12.0

NO DATA RECORDED ON SUMMARY FILE FOR THIS PERIOD

NO DATA RECORDED ON LCKAGE FILE FOR THIS PERIOD

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
K7	WILMINGTON	SOUTH ATLANTIC	10/84	11/84	12/84

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
CAPE FEAR RIVER	1-LOCK & DAM 1	0200/0040/10.0
	2-LOCK & DAM 2	0200/0040/10.0
	3-WILLIAM O HUSKE LOCK & DAM	0300/0040/10.0

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC K7	DISTRICT NAME WILKINGTON	DIVISION NAME SOUTH ATLANTIC	MONTHS REPORTED									
			10/84		11/84		12/84					
RIVER/LOCK NAME												
TONS												
VESSL												
VESSL												
VESSL												
BARGS												
BARGS												
BARGES												
LOCKGS												
LCKGES												
LCKGES												
LCKGES												
TONNAGE												
(NAV, OPN, ETC)												
CAPE FEAR RIVER												
LOCK & DAM 1												
xxx ONLY FIRST AND THIRD MONTHS REPORTED												
UPBOUND STATISTICS												
DOWNBOUND STATISTICS												
TOTALS												
LOCK & DAM 2												
xxx ONLY FIRST MONTH REPORTED												
UPBOUND STATISTICS												
DOWNBOUND STATISTICS												
TOTALS												
WILLIAM O HUSKE LOCK & DAM												
xxx ONLY FIRST MONTH REPORTED												
UPBOUND STATISTICS												
DOWNBOUND STATISTICS												
TOTALS												

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC K7	DISTRICT NAME WILMINGTON	DIVISION NAME SOUTH ATLANTIC	MONTHS REPORTED														
			10/8411/8412/84														
			ALL TIMES EXPRESSED IN MINUTES														
			APPROACH			LOCK PROCESSING TIME						EXIT			: DELAYED DELAY		
MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	: TONS	TIME	AVG	MAX	(ALL VSSLS)	
CAPE FEAR RIVER																	
LOCK & DAM 1	5	5	5	5	5	5	10	14	15	5	10	35	:	0	0	.0	0
LOCK & DAM 2	5	5	5	5	5	5	5	11	15	5	6	10	:	0	0	.0	5
WILLIAM O HUSKE LOCK & DAM	5	5	5	5	5	5	5	5	5	5	5	5	:	0	0	.0	0

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC N3	DISTRICT NAME GALVESTON			DIVISION NAME SOUTHWESTERN							MONTHS REPORTED 10/84 11/84 12/84							
ALL TIMES EXPRESSED IN MINUTES																		
APPROACH			LOCK PROCESSING TIME						EXIT			:	DELAYED	DELAY	DELAY	DELAY		
			ENTRY		CHAMBER							:	TONS	TIME	AVG	MAX		
MIN AVG MAX			:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	MIN	AVG	MAX	:	(TONS)	(TONS)	(ALL VSSLS)
GULF INTRACOASTAL																		
COLORADO RIVER EAST LOCK	1	2	18	1	1	20	1	4	59	1	1	26	:	1651	3267	2.0	60	
COLORADO RIVER WEST LOCK	1	1	30	1	1	13	1	3	58	1	1	30	:	1604	2991	1.9	38	
BRAZOS EAST GATE	1	1	47	1	1	60	1	1	1	1	1	51	:	1949	9600	4.9	545	
BRAZOS WEST GATE	1	1	36	1	1	5	1	1	2	1	1	61	:	1856	5926	3.2	516	

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
M4	LITTLE ROCK	SOUTHWESTERN	10/84	11/84	12/84

RIVER	LCODE-LOCK NAME	LEN/WID/DRAFT (FT/FT/FT)
ARKANSAS RIVER	1-NORRELL LOCK & DAM	0600/0110/12.0
	2-LOCK & DAM 2	0600/0110/12.0
	3-LOCK & DAM 3	0600/0110/12.0
	4-LOCK & DAM 4	0600/0110/12.0
	5-LOCK & DAM 5	0600/0110/12.0
	6-DAVID D TERRY LOCK & DAM	0600/0110/12.0
	7-MURRAY LOCK & DAM	0600/0110/12.0
	8-TOAD SUCK FERRY LOCK & DAM	0600/0110/12.0
	9-LOCK & DAM 9	0600/0110/12.0
	10-DARDANELLE LOCK & DAM	0600/0110/12.0
	11-OZARK LOCK & DAM	0600/0110/12.0
	13-LOCK & DAM 13	0600/0110/12.0

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC M4	DISTRICT NAME LITTLE ROCK			DIVISION NAME SOUTHWESTERN			MONTHS REPORTED					
							10/84		11/84		12/84	
RIVER/LOCK NAME												
	TOWS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS CONNER	LCKGES RECRTN	LCKGES OTHER	LCKGES TOTAL	TONNAGE (KTONS)
(NAV, OPN, ETC)												
ARKANSAS RIVER												
NORRELL LOCK & DAM		XXX										
UPBOUND STATISTICS	166	8	23	197	573	310	883	174	7	21	202	420
DOWNBOUND STATISTICS	172	20	20	212	129	801	930	178	17	21	216	1096
TOTALS	338	28	43	409	702	1111	1813	352	24	42	418	1517
LOCK & DAM 2		XXX										
UPBOUND STATISTICS	167	9	15	191	573	324	897	181	8	8	197	441
DOWNBOUND STATISTICS	171	23	13	207	131	797	928	186	18	6	210	1162
TOTALS	338	32	28	398	704	1121	1825	367	26	14	407	1604
LOCK & DAM 3		XXX										
UPBOUND STATISTICS	150	15	15	180	525	306	831	163	11	32	206	422
DOWNBOUND STATISTICS	156	24	13	193	134	759	893	171	22	36	229	1032
TOTALS	306	39	28	373	659	1065	1724	334	33	68	435	1454
LOCK & DAM 4		XXX										
UPBOUND STATISTICS	150	12	14	176	523	322	845	160	12	13	185	401
DOWNBOUND STATISTICS	156	24	8	188	133	754	887	168	23	14	205	1034
TOTALS	306	36	22	364	656	1076	1732	328	35	27	390	1435
LOCK & DAM 5		XXX										
UPBOUND STATISTICS	132	23	7	162	415	268	683	141	20	10	171	339
DOWNBOUND STATISTICS	135	34	8	177	130	572	702	146	33	8	187	987
TOTALS	267	57	15	339	545	840	1385	287	53	18	358	1326
DAVID D TERRY LOCK & DAM		XXX										
UPBOUND STATISTICS	135	51	11	197	417	279	696	142	48	7	197	339
DOWNBOUND STATISTICS	134	59	13	206	128	575	703	148	57	7	212	909
TOTALS	269	110	24	403	545	854	1399	290	105	14	409	1249
MURRAY LOCK & DAM		XXX										
UPBOUND STATISTICS	114	60	7	181	389	240	629	123	47	5	175	306
DOWNBOUND STATISTICS	119	75	4	198	129	531	660	124	64	6	194	903
TOTALS	233	135	11	379	518	771	1289	247	111	11	369	1210

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC #4	DISTRICT NAME LITTLE ROCK	DIVISION NAME SOUTHWESTERN	MONTHS REPORTED									
			10/84			11/84			12/84			
RIVER/LOCK NAME	TONS	VESSL	VESSL	VESSL	BARGS	BARGS	BARGS	LOCKGS	LCKGES	LCKGES	LCKGES	TONNAGE (KTONS)
		RECRTN	OTHER	TOTAL	EMPTY	FULL	TOTAL	CONNER	RECRTN	OTHER	TOTAL	
(NAV, OPN, ETC)												
ARKANSAS RIVER												
TOAD SUCK FERRY LOCK & DAM	XXX											
UPBOUND STATISTICS	110	27	3	140	374	236	610	114	17	10	141	302
DOWNBOUND STATISTICS	117	33	2	152	130	534	664	121	21	11	153	844
TOTALS	227	60	5	292	504	770	1274	235	38	21	294	1147
LOCK & DAM 9	XXX											
UPBOUND STATISTICS	115	36	0	151	398	239	637	117	25	10	152	308
DOWNBOUND STATISTICS	115	48	4	167	126	527	653	120	34	7	161	833
TOTALS	230	84	4	318	524	766	1290	237	59	17	313	1141
DARDANELLE LOCK & DAM	XXX											
UPBOUND STATISTICS	124	27	85	236	396	235	631	131	14	15	160	299
DOWNBOUND STATISTICS	121	31	7	159	126	519	645	130	19	17	166	816
TOTALS	245	58	92	395	522	754	1276	261	33	32	326	1115
OZARK LOCK & DAM	XXX											
UPBOUND STATISTICS	113	15	4	132	393	225	618	118	13	8	139	288
DOWNBOUND STATISTICS	110	20	4	134	133	510	643	117	18	11	146	806
TOTALS	223	35	8	266	526	735	1261	235	31	19	285	1095
LOCK & DAM 13	XXX											
UPBOUND STATISTICS	117	19	2	138	388	228	616	120	15	8	143	285
DOWNBOUND STATISTICS	115	21	6	142	138	512	650	123	18	9	150	815
TOTALS	232	40	8	280	526	740	1266	243	33	17	293	1100

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC M4	DISTRICT NAME LITTLE ROCK			DIVISION NAME SOUTHWESTERN			MONTHS REPORTED										
							10/84			11/84			12/84				
							ALL TIMES EXPRESSED IN MINUTES										
APPROACH			LOCK PROCESSING TIME									: DELAYED TOMS	DELAY TIME (TOMS)	DELAY AVG (TOMS)	DELAY MAX (ALL VSSLS)		
MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX	: MIN	AVG	MAX					:	
ARKANSAS RIVER																	
NORRELL LOCK & DAM	2	9	50	1	9	60	1	9	25	1	9	45	:	22	530	1.6	95
LOCK & DAM 2	1	10	50	1	10	32	5	12	32	1	12	52	:	47	1485	4.4	106
LOCK & DAM 3	1	10	40	1	8	40	5	9	27	1	10	45	:	42	1104	3.6	70
LOCK & DAM 4	1	11	46	1	8	29	5	13	135	1	9	45	:	33	1349	4.4	130
LOCK & DAM 5	1	10	45	1	9	38	5	10	29	1	12	54	:	63	1175	4.4	109
DAVID D TERRY LOCK & DAM	1	11	58	1	9	47	5	9	47	1	10	43	:	56	1170	4.3	135
MURRAY LOCK & DAM	1	8	35	1	8	69	5	10	32	1	9	70	:	26	708	3.0	87
TOAD SUCK FERRY LOCK & DAM	1	10	55	1	9	49	5	9	96	1	9	36	:	52	672	3.0	77
LOCK & DAM 9	1	13	100	1	9	81	6	12	32	1	9	39	:	28	617	2.7	103
DARDANELLE LOCK & DAM	1	12	72	1	8	36	5	14	56	1	9	86	:	204	1741	7.1	80
OZARK LOCK & DAM	2	12	55	2	10	30	5	12	30	2	11	25	:	174	1503	6.7	60
LOCK & DAM 13	1	9	45	1	10	43	6	12	38	2	12	47	:	27	866	3.7	116

TABLE 1

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
 FOR THE PERIOD 10/84 THROUGH 12/84
 INSTITUTE FOR WATER RESOURCES

EROC	DISTRICT NAME	DIVISION NAME	MONTHS REPORTED		
NS	TULSA	SOUTHWESTERN	10/84	11/84	12/84

RIVER	LCODE-LOCK NAME	LEN/MID/DRAFT (FT/FT/FT)
ARKANSAS RIVER	21-W D MAYO LOCK & DAM	0600/0110/14.0
	22-ROBERT S KERR LOCK & DAM & RES	0600/0110/14.0
	23-WEBBERS FALLS LOCK & DAM	0600/0110/14.0
	24-CHOUTEAU LOCK & DAM	0600/0110/14.0
	25-NENT GRAHAM LOCK & DAM	0600/0110/14.0

TABLE 2

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC #5	DISTRICT NAME TULSA	DIVISION NAME SOUTHWESTERN	MONTHS REPORTED										
			10/84		11/84			12/84					
RIVER/LOCK NAME		TOMS	VESSL RECRTN	VESSL OTHER	VESSL TOTAL	BARGS EMPTY	BARGS FULL	BARGES TOTAL	LOCKGS COMMER	LCKGES RECRTN	LCKGES OTHER (NAV, OPN, ETC)	LCKGES TOTAL	TONNAGE (KTONS)
ARKANSAS RIVER													
H D MAYO LOCK & DAM		xxx											
UPBOUND STATISTICS		109	44	2	155	375	179	554	113	17	6	136	236
DOWNBOUND STATISTICS		109	44	11	164	104	492	596	117	17	6	140	794
TOTALS		218	88	13	319	479	671	1150	230	34	12	276	1031
ROBERT S KERR LOCK & DAM &RES		xxx											
UPBOUND STATISTICS		109	42	3	154	375	179	554	113	29	7	149	235
DOWNBOUND STATISTICS		110	47	8	165	106	492	598	119	34	7	160	793
TOTALS		219	89	11	319	481	671	1152	232	63	14	309	1028
WEBBERS FALLS LOCK & DAM		xxx											
UPBOUND STATISTICS		98	20	2	120	263	180	443	102	13	10	125	241
DOWNBOUND STATISTICS		97	22	5	124	104	375	479	104	13	10	127	640
TOTALS		195	42	7	244	367	555	922	206	26	20	252	882
CHOUTEAU LOCK & DAM		xxx											
UPBOUND STATISTICS		96	4	5	105	228	143	371	102	2	6	110	186
DOWNBOUND STATISTICS		92	5	9	106	75	311	386	103	4	7	114	507
TOTALS		188	9	14	211	303	454	757	205	6	13	224	694
MONT GRAHAM LOCK & DAM		xxx											
UPBOUND STATISTICS		95	8	4	107	225	145	370	100	8	3	111	189
DOWNBOUND STATISTICS		90	10	8	108	76	295	371	100	10	3	113	484
TOTALS		185	18	12	215	301	440	741	200	18	6	224	673

TABLE 3

PERFORMANCE MONITORING SYSTEM (PMS) QUARTERLY REPORT
FOR THE PERIOD 10/84 THROUGH 12/84
INSTITUTE FOR WATER RESOURCES

EROC N5	DISTRICT NAME TULSA			DIVISION NAME SOUTHWESTERN							MONTHS REPORTED						
											10/84		11/84		12/84		
ALL TIMES EXPRESSED IN MINUTES																	
APPROACH			LOCK PROCESSING TIME							EXIT		DELAIED DELAY	DELAIED DELAY	DELAIED DELAY	DELAIED DELAY		
												TONS	TIME	AVG	MAX		
MIN AVG MAX			MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	MIN	AVG	MAX	(TONS)	(TONS)	(ALL VSSLS)
ARKANSAS RIVER																	
W D MAYO LOCK & DAM			1	11	44	1	9	32	5	11	25	1	10	75	9	248	1.1 55
ROBERT S KERR LOCK & DAM &RE			1	7	22	2	9	42	10	14	30	2	10	42	15	441	2.0 61
WEBBERS FALLS LOCK & DAM			2	12	40	1	9	37	10	18	42	2	9	3	125	2130	10.9 271
CHOUTEAU LOCK & DAM			1	8	32	1	8	45	5	15	25	2	9	40	56	396	2.1 105
NEWT GRAHAM LOCK & DAM			1	11	28	2	9	70	5	14	39	2	13	50	23	439	2.4 110

Appendix B

Glossary

Draft This is not a physical lock dimension. It is compared with new data before they are added to the central library to ensure that vessel drafts are not recorded improperly.

Tows Only tows with barges are included with this figure. Tows without barges, (light boats) and other commercial vessels are counted as "other vessels."

Other vessels All vessels other than tows with barges and recreational vessels.

Commercial lockages The number of lockages for which the prime mover is a tow, a light boat or another commercial vessel.

Recreational lockages The number of lockages during which there are only recreational vessels using the lock.

Other lockages The number of lockages during which the prime mover is a government vessel, a government contracted vessel (such as a dredge) or an unidentified type of vessel. Also included in this category are navigable and open pass lockages.

Total lockages A lockage includes all lock activity necessary to process a tow and is counted only once when more than one vessel uses the lock. Thus, both cuts of a double cut lockage (e.g. only part of the tow will fit in the lock and it is necessary to process the tow in two pieces) count as a single lockage together and the count increases by only one when two tows are processed during a single lockage.

Processing time Only the times needed to process tows with barges are included in these statistics.

Delayed vessels Number of tows experiencing delay between arrival time and the time the lock is ready to process them.

Average delay Average time of delay for all tows.

Maximum delay Maximum delay time for vessels. This figure may reflect a single, extraordinary circumstance and should be evaluated accordingly.

END

FILMED

12-85

DTIC